

<110> Rosen et al.

<120> 143 Human Secreted Proteins

<130> PS500P1

<140> Unassigned

<141> 2001-11-08

<150> PCT/US00/12788

<151> 2000-05-11

<150> US 60/134,068

<151> 1999-05-13

<160> 456

<170> PatentIn Ver. 2.0

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<211> 733

<212> DNA

<213> Homo sapiens

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<213> Homo sapiens
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<212> DNA

<213> Homo sapiens

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<211> 967

<212> DNA

<213> Homo sapiens

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<220>

<221> SITE

<222> (754)

<223> n equals a,t,g, or c

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 <212> DNA  
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 <223> n equals a,t,g, or c

<220>  
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 <223> n equals a,t,g, or c

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<220>  
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<220>  
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 <222> (706)  
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 <211> 1059  
 <212> DNA  
 <213> Homo sapiens

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<211> 297
<212> DNA
<213> Homo sapiens

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&lt;211&gt; 1528

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 30

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aggagaattc	tgagaaatgg	aaactttaaa	aaggcggcaa	ccttctagtt	tcattctcag	480
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cagagctcct	ggaactttct	catcttttca	gcattctaac	cctgtggaat	cttttaactc	660
ccaaggtaag	tacagattgt	ccagagagat	ctaagccatg	cttattcaat	ggaatggaga	720
gtctctcaaa	gagacctcat	aactctaaga	tgaatatctc	ctctgtggct	acagactttt	780
ccagatatat	ccactttagg	caagagagga	tgaagtagac	actttaggtc	tacactttta	840
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tgaggccagg	gatgtaggac	tcaagcccag	aggaacctgg	ctgggctgag	agaaagagat	960
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&lt;210&gt; 31

&lt;211&gt; 814

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

<220>  
 <221> SITE  
 <222> (285)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (554)  
 <223> n equals a,t,g, or c

<400> 31  
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 tggaaccgac accaaagctg ggggtccctt gatcatgaac tccataaagt ctttttccga 180  
 ctgcgctcaa tgtggaagcc tggaagtata cctcgtggga ggcttcagtg atgtgggagg 240  
 cagttgtcac aaaaactcac tcattaactt cttagtgaat ttgancaggc aagaaggwtg 300  
 acattcactt agtgatacta tgattatgtg tgacagaatt aaatgaccag gaagaaaacg 360  
 aataacactt tctaawaata tatggcatgc tgtcaactta agactgcaaa gatttacaga 420  
 gcctcctttc ttttttttgt ttgagacaga gtctcctctg tkgcccaggc tggggtkgca 480  
 gtgagccgag atggtgccat tgsamtcag cccaagcaac aagrgcaaaa ctccatctc 540  
 aaaaaaaaaa aagnaaaaaaaa aaagaatgta aactacaaga tggttcaaaa gaaattacac 600  
 ggaattcagc atgggagaaa caaaaaacaa gagtgggaaa agacatcaaa catgttttta 660  
 ctaatcgaag ttctaaaagg agagacgaga atacagcaca gataatatat gaagagaatg 720  
 gctggaaatc tttcagaact gttgaaggat atctatccac agattcaaaa acccaataaa 780  
 atctcaagca gtattaaaaa aaaaaaaaaa actc 814

<210> 32  
 <211> 800  
 <212> DNA  
 <213> Homo sapiens

<400> 32  
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 atctttttgtc tttcttctgg tcatctacac cttttgcaca gttcttgaag acaacgtcat 180  
 catcccacct tcttttaact ttgaagttgg cctgaggctg ggatgggcca gtgagattaa 240  
 ggagagggtt tccgctcaga atgtttttcca tacgaatcct ctcttcttca gcttttttgtt 300  
 cttgttccct cctggcctgc tcttcagctc tttctttttt aattttttcc agttctgcaa 360  
 gaagagctgc agtatcatca tcatcacttt cttcttcaaaa atcttcatct tctcatctg 420  
 ttagagggtc atctgcatca aggttggcgg caggaatctg gtctaaccgt ggcttttttg 480  
 acactgaaga ggaggttgta tgttctcggg ttggacgac cctatttttc tctcttgca 540  
 cagctctctc tctttcttcc aactctctcc tgaagtcacg gttacgaacc tcttcagggg 600  
 catcctgagt agtctgtctg tattttatct ttgtatgaga gggtaggtct ctgcttgaat 660  
 actgctttga aagttggctc aaatcacctt ctctttttcc ccttccacct ctggcagggt 720  
 caaagggttg cctggctgct gttgtcatct tttatgactg gccgagggtc gatgcagcag 780  
 gctccgaaga tctcgtgccc 800

<210> 33  
 <211> 574  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (565)  
 <223> n equals a,t,g, or c

<400> 33  
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 aattaaccct cactaaaggc aacaaaagct ggagctccac ccggttgagg cscctctara 120  
 aytaktggat cccccgggct gcagaattcg gcacgagccc atctgggggc cctgggctcc 180  
 catcctcatc tctctccttg actggaattg ctgctaccca gctgggggtg gtgaggcctg 240  
 cactgattgg ggctggggc agggggggtca aggagagggt tttggccgct ccctccccac 300

taaggactgg	acccttgggc	ccctctcccc	ctttttttct	atattattgta	ccaaagacag	360
tggttggtccg	gtggagggaa	gacccccct	caccccagga	ccctaggagg	gggtgggggc	420
aggtaggggg	agatggcctt	gctcctctc	gctgtacccc	cagtaaagag	ctttctcaca	480
aaaaaaaaaa	aaaaaaaaaa	ctccaggggg	gcccgggtacc	caattcgccc	tatagtgagt	540
cgtattacaa	ttcactggcc	gtcgntttaa	aagt			574

<210> 34  
 <211> 629  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (33)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (44)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (70)  
 <223> n equals a,t,g, or c

<400> 34						
tcactaaagg	gaacccaaaag	ctggagctcc	acncggtggc	ggcngctcta	gaactagtgg	60
atcccccggn	ctccaggaat	tcggcacgag	tttactattc	atgaagtgga	aatggatcat	120
catgaaggtc	ttcatccctg	tcttcacatt	gagtaggcta	tcttgctgtc	tcaggggtgg	180
cagaggcgga	agagggtggag	gaagtggatg	gggaggcgga	agagggtggag	gaagtggatg	240
ggaaggcggg	agaggcaggc	acacttggtg	taacttttgt	tgaaaaaata	tctttgtata	300
agtggaccca	cgcagttcaa	acgtgttgtt	caaggggtcaa	ctgtggtcat	attgtcgggg	360
ttcttttagcc	attaggtctc	agaaattagc	ctgaatttag	ccagacatag	tagcacacgc	420
ctatagttcc	agctgcttga	gaggctgagg	cggaagatc	acttgaaccc	agactgcagt	480
gggctatgat	ggtgtcactg	cactccagcc	tgggtaacac	agtgagactc	catatcaaaa	540
aaaagaaaaa	aaaaaaaaaa	aaactcgagg	ggggggcccg	taccaatttc	gccttatagt	600
gatcgtatta	caattcactg	ggccgctcgt				629

<210> 35  
 <211> 1148  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (887)  
 <223> n equals a,t,g, or c

<400> 35						
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tacattgcag	atgcaaagcc	tcagaaaattg	gtggaaaattg	aaaaataagga	tgaacgtggg	120
atgaaaagag	aagatatgat	tatacatctt	ccctttaaga	gaaaattgaa	ggtttattct	180
ctgcagagtc	aaagacagtg	tctctggact	agaaaaccct	agggtgcacaa	ctgtctgggtg	240
gtgctgaatt	gaaaaaatgag	gaaaaaaaagt	tttcatgctg	aatattataa	ctctcttcta	300
ctgctcctat	ttctcccaga	aaacaatgac	agtaggcagg	atataggaag	agtcattctt	360
ggggaatcag	accagcctaa	gagcaaatat	ctaaagggtat	taatattgga	gatcccaagg	420
aaatggctta	gccagacgta	ctaaaaggaa	gaccatattt	gacaagcttc	acacacgttt	480
gcaaattcca	atcaattttt	tagtggtcac	ttatacatat	gaacagatgg	caaaggatga	540
ccaggcattt	gaggatgaaa	acattatgaa	atatgggaat	gtgcacaaac	aagaaaagtg	600
ggttcgagta	agtagaattt	atatagagag	aacattttcaa	aaaactgtta	aagagtatcc	660
tcmaagagat	aagagaaggt	gttactttca	tgaataaagg	cagtaaacta	cttgaaaaga	720
aagaacgaaa	aaaaatgagt	tcttggaata	taagaatata	gtagttgaaa	tgaaaaatct	780
agtttttaaaa	agatgataaa	atagargcma	actcccagaa	agtwkagcag	aaagacmaag	840

aatwgaaaaat	ttgaaagaaa	agaaaggggt	catgttcagg	aggcccnata	tccaaataat	900
aggaaattca	gaaagagaga	acagaaaaaa	gtagaggata	gcaaatacctc	gaacagtatt	960
ttctagaact	aaattgatga	gttttcagtt	gacaggcctc	tcaagagctc	aatacagtgg	1020
ataaaaaatat	tcccatacca	gcagggtatca	ttactaaaat	gcagtgctgc	aaacagtgga	1080
agattctgca	agcttcctga	gaaaaaaaat	taaagcttcc	tgaggaaaaa	aaaaaaaaaa	1140
aaactcga						1148

<210> 36  
 <211> 726  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (7)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (141)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (660)  
 <223> n equals a,t,g, or c

<400> 36						
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attgtgagcg	gataacaatt	tcacacagga	aacagctatg	accatgatta	cgccaagctc	120
gaaattaacc	ctcactaaag	ngaacaaaag	ctggagctcc	accgcggtgg	cggccgctct	180
agaactagt	gatcccccg	gctgcaggaa	ttcggcacga	ggtgagcttc	tgactgaca	240
tggaccccg	gccgcagacc	ttccaccccg	tgctgtccct	gctcagcttc	ctcttcaagg	300
cgccactagt	gccgcccggc	agcccgggtg	tcaatgcgct	tttccgccag	cgcagctgca	360
tcgagaacat	cctcagggcc	tgctgggggc	ttccgccaca	gaaccacatg	ctcctggaac	420
acaaaatgga	gcgcccagg	cccagcctca	agcgagttgg	acccgtggct	gccacctacc	480
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atgggcatct	gcaagaggag	cccccaatgc	ccaccacctg	aggccccggg	cacacagttt	600
ctcggtctct	ctcccccgct	gccccccacg	accctacctt	gaaggccccc	acaaataaan	660
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aactag						726

<210> 37  
 <211> 1002  
 <212> DNA  
 <213> Homo sapiens

<400> 37						
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ctatccttta	cctggcccag	acctggtgcc	aagagtggaa	tcatttagac	tttagtgcac	120
cagcaaatat	cccttcactc	atataccatc	ctatgatgaa	aaaaataatt	gcttgatttt	180
taaagttaaa	aacttcagtt	cttcacacaa	ttccagaaac	ataagaaata	tgtggttcac	240
tgtttaacaa	agccatttct	catgagtact	gatgttcctt	tgattagtta	gagggacctt	300
ctctcagaag	aagctctcaa	gtctagaagc	tcaataagtg	ggatgtgaga	agttttaatc	360
tttgaaggaa	gccactgtta	cgttggaact	ggtgtaattg	ctcctgagag	ctaaatgtat	420
atgtgttttc	ccaactcagt	gtccagaaat	gtcagactga	tagcttgaaa	tttcccttgg	480
tgggagtatt	ttcacctaga	aaattgaaaa	ccccgaaaa	tccgaacttt	tttccctctg	540
gagagccaat	tgttaaatat	ttaccagcat	accactgacg	gtagctagcc	ttccttcacc	600
tgggacttga	tgaagttgat	ggatttacta	aactatttctg	catatgatat	gcataacaat	660

<220>  
<221> SITE



&lt;222&gt; (1)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 39

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ctgccccatc	ccaccttaca	acactctggc	ccctctgctt	ggtccccctt	tccccagggc	120
aggaggcaat	cccagggggc	tgectgatag	aggcattttc	tgctccctgtc	tctctctgca	180
tctcttttat	cctgcactgc	cacctcttat	tccccattct	gtgttggaact	ttgaaggccc	240
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cagagagatg	aggacatttt	gctttctcct	catgcccaca	gcatgagctg	agcttctgct	600
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gtgtacacgc	atgtacacac	ggcatgcatg	cacagccaga	tggccactca	gcacagatgt	960
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ccctcccagc	gtgatgcgct	accttgcttc	ggcgtcttgt	cgcccttttc	gccttttggtc	1620
cagggacagc	ccagcagatc	ctcctgggtc	tgacctgggg	gggtgttgca	tcacccccctt	1680
ttacttgtat	taaaaaaaaa	tgatgggttg	aaaatgtact	gaggattaaa	aatgtacttt	1740
tttataaata	aagtgtttta	aacaaaaaaaa	aaaaaaaaaa	aactcga		1787

&lt;210&gt; 40

&lt;211&gt; 1681

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (50)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 40

gaactnattg	aaaactggaa	cacactacta	taattaaaag	aatggcagan	aaaagtaaat	60
atgatgasct	ttaagctgga	tctcttaact	tagaggaaga	ctatgtatta	taaaattagc	120
taaataagag	ccacaattat	taaagtgaat	atcaaaactg	tttcaaggta	cattatcggtg	180
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tctctctcct	atcactctca	agtcctcccc	acccttcaag	acccagctta	aatccctact	360
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tcttaacaca	tcaattatga	gtatctcttt	acatacctga	cctccctcct	tccccctcaa	480
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ctggtgcaat	cttggctcac	tgcaacctct	gtctcccagg	ttcaagtgat	tctcccgcct	1020
cagcctccca	agtagctggg	amtacagggc	atgcgccacc	atgcctggct	atTTTTtTgta	1080
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cacgatccca	gcgtcctggc	ctcccaaagt	actgggatta	taggcgtgag	ccaccgagcc	1200
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tttataaagc	ttggggacct	ttaaagctttg	ataaaaacgc	tgtaccacca	aagaactgtt	1560
aaggaagcaa	tggcttcac	tcaagagtag	acagattaca	ctttcaaaac	actgacgggg	1620
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a						1681

<210> 41  
 <211> 714  
 <212> DNA  
 <213> Homo sapiens

<400> 41						
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gggttgagag	agggttgctg	gtgtgtgtgt	gtgtgtagag	aatatgtgtg	gtatgtgtac	300
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ggcacctccc	ttctgatctg	gagcttcttg	gcctaaccct	aagctactga	tcagtcccat	420
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<210> 42  
 <211> 838  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (19)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (22)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (81)  
 <223> n equals a,t,g, or c

<400> 42						
gaaattacct	tcacttaang	gnacaaaact	ggactccacc	gcgttgccgg	cgctctaaac	60
tagtgratcc	cccgggctgc	ngaaattcgg	cacgagtcgg	cacgagtcgg	cacgagtgag	120
aagtgattga	aacaaaacag	atgagttaat	gtgattgaga	atgacaggca	gatgaagggg	180
gactcaagct	atgattggtc	ctggaatgag	agggtagatg	ggtttttggg	ggcctgggcc	240
cttctctatc	accttcatgg	cccccgaaag	gcttagctct	cttcccaggg	gctgctccca	300
atgtcctaag	atgcagtcac	gagtggggct	tggggatcgg	ggtttgccgg	ggcactgtgg	360
tccatgggtc	tgtgtgcaag	ttcagttttg	ggaaactcat	gggacataga	tttttgcct	420
agagactcac	atggtgagtg	gtagccattg	atggcaaaaa	gttaccgcga	cttgaaaaaga	480

tcagacagag	tgagtgtctca	ggaaaaataaa	acgatgaagc	caagaaaaaag	atgaaactaa	540
actagaatga	ttgtggctct	ccttttggtgt	ttgcaagagg	ggccttccct	ccgtttgact	600
ggtgaggcct	ttccactctc	gggctggtag	agggacttct	tcctggcttt	tggggggcacc	660
ggctcccca	tagattctcg	ggtgcatgag	cacaagttct	gggcagattt	tgcaaaatcc	720
tgaagttaaa	gcattcttctg	cttagaataa	ggaaagcaag	tgaatgtcac	gtttgtcaca	780
ctaagacagt	taccatgaaa	acaaccacag	gcgaaaaaaa	aaaaaaaaaa	aaactcga	838

<210> 43  
 <211> 320  
 <212> DNA  
 <213> Homo sapiens

<400> 43						60
agggcgccacg	gccaatgtgat	gggcatgatac	cttgtgtctgg	cgagcttctct	ggcgcaccccg	120
gtcgaggcgc	tcgcgcaagc	tgctcgctctg	ggccagcagc	aactcgcgct	gctcgggtgts	180
carrgccatg	ctgtcgaggg	cttctctgcaa	ttgcagrcgt	gcttcgccgr	cttgttctgtg	240
ttcgarggcg	cgttgtctcgc	ccatctctggc	cacttctctcg	tcgagccggg	tcggggcgag	300
ggtcagttgc	tcgaccttgg	ccttgytcgc	cgagagctgg	gctttcaatt	cgccctgctg	320
gcgcgcttcg	tcttgcaaca					

<210> 44  
 <211> 785  
 <212> DNA  
 <213> Homo sapiens

<400> 44						60
aattcggcac	gagtcctggag	ttcagttcat	cccaacacac	attaattgaa	tgcctcatct	120
gtgccaagca	tgctggacag	tgggaataga	gaaattaaca	tcgtgggtgt	agctcctcct	180
ttcagacagg	gactgatatac	tctgagaacc	tgtgggaaga	aggacaacca	gttgatctct	240
tgaggactga	gagtcagccc	acatgatatac	agaggctgtt	gcattcccaat	gccattgtct	300
catggagggg	acctttactg	tgtggagtgg	gggcctagca	gtgtatgtgt	gggcagtgtg	360
gtgcagtgtc	catgggtggt	gttttctgtg	tggtctgtttg	cagtcagcgc	ttttgaagct	420
tttcatgtga	agtaccatta	gtggcagaga	gtgaattcac	acttcacaag	gggcatgggg	480
ttttagatca	ctgcacacag	aaactttctt	cgaagcccca	tgttttgtct	taaaagtatg	540
tttagctgcg	catggtgctc	acgcctgtaa	tcccagcact	ttgggaggcc	aaggcagggtg	600
gatcacgagg	tcaggagatt	gagaccatcc	tggctaacac	ggtgaaacct	cgtctctact	660
aaaaatacaa	aaaattagct	gggtgtgggt	gcgggcgcct	gtagtcaccag	ctagtcggga	720
ggctgaggca	ggagaatggc	gtgaaccggg	gaggcgagac	ttgcagttag	ccgacattgc	780
gccattgcac	tctaacctgg	gcaacacagc	aagatccgtc	tcaaaaaaaaa	aaaaaaaaaaa	785
ctcga						

<210> 45  
 <211> 1139  
 <212> DNA  
 <213> Homo sapiens

<400> 45						60
ggcacgagga	aaagtgggtg	cctttatgat	agaaattcaa	gaatcacagg	gaagacatgc	120
gactaccta	aatgcattct	tttctcttgg	ttaaattttg	gaatccttgg	acagggcaac	180
ttctttta	cacaaaaattg	ttttaacttt	taaaatgaaa	aatttctgac	aacacattat	240
tcctaaat	ataagaaaat	gtaaatat	aaaatcacag	aaagggatgc	caggagagcc	300
aagtggcact	ggttttggaa	atagtaaaga	aggaagggtta	gacaggggaa	taaaaaagaa	360
gcaaaaagat	tcaagtcaat	ctacaccttt	aaaataagaa	aaaaataaaa	taagcctaga	420
taaacttgag	agttctgtta	taatagccag	gatacagaat	taaccaagt	ttccatcagt	480
ggacaatgg	attaaaaaat	ggacgaatag	ataaagaaaa	tgatatgca	caatgttact	540
ttattttctt	ttactctgct	ttgagttcgg	ggcaaatggg	tgattctcat	aattaattac	600
taaacaat	ccctttttaa	taatttatct	tttaaaagcc	cccttaagct	gtttttccct	660
tagtcagatc	ttcactgggg	cttaataaac	agttaaaaac	actgatttga	aactgttctc	720
ttctataggc	agcaccacca	cccagttaca	ttgacattaa	gtaaatgcat	agattaaaaa	780
ctgttaaaat	taggccttgc	tctgatggct	aagggtgatc	aaaggcaagt	aaggagaaaa	840
ataaactgac	agtcttcgaa	tgctgagaga	atactttaaa	actttttggg	ccaggtgtgg	900
tgtctctcac	ctgtaatccc	cagcactttg	gggaggccga	agcaggcaga	tcacctgaag	960
gtcaggagtt	tgagactagc	ctggccaaca	tggcgaaact	catctctact	aaaaatacaa	

aaattagcca	ggcgtgggtgg	cgagtgcctt	taatcccagc	tgcttgggaa	gctaaggcag	1020
gagaatcgct	tgaacccagt	aagtggatgt	tgcagtgaac	tgagatcgca	ccactacact	1080
tcagccaggg	ccacaagagc	tccatctcaa	gttaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1139

<210> 46  
 <211> 701  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (404)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (405)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (429)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (546)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (547)  
 <223> n equals a,t,g, or c

<400> 46						
ggcagcagtg	ctcactccct	gagcaggtgc	cgtgggtctt	cctgtgaagg	ctgggggtac	60
gcatgcctcc	tgactccccg	cagagatgga	ggtgggtgctg	gtgctgctgg	cctccgctg	120
tcacctactc	ttgggaggtc	acaccactgt	tgagggccat	gctgcctgga	gatggccggg	180
ttggccctgc	tgtcctggtt	aggctgagca	gaggagtctc	tggcagccct	ttccctgctg	240
ggggcagccc	ccgtgtgcca	tcctgcgcgt	gcatagtgtc	gacaagtaga	aatgggttctt	300
cttggtagaa	agatgaaatt	tttttccctt	atctccaaga	aaatcccctw	wtacaaagga	360
aaactcamttt	gtttcggggw	ttaaaatattt	cagagtgttg	gccnngcgcg	gttgctgacg	420
gctgtaatnc	ccagcaatnt	gggaggccga	ggcgggtgga	tcamaaggtc	agggatcgag	480
accatcccgg	ytaacamggt	gaaaccccgt	ytttaytaaa	aatgcaaaaa	aaaattagcc	540
gggagnngtg	gcggccggtg	cctgtagtcc	cagctactca	ggaggctcag	gcagaagaat	600
ggcttgaacc	caagaggcgg	agcttgcaat	gagccgagat	cgcgccactg	cactccagcg	660
tgggcgacag	agcgagactc	cgtctcaaaa	aaaaaaaaaa	g		701

<210> 47  
 <211> 528  
 <212> DNA  
 <213> Homo sapiens

<400> 47						
ggcagcaggg	ctcttttcatg	catgcctaga	gtcctgcatg	aaagagcccc	cctgggtgatg	60
cccttggatg	ctgccaagtc	catggtagtt	ttcaattttg	ccatactttt	gttcttccta	120
ccggaccctg	gaatgtcttt	ggatattgct	aaaatctatt	tctgcagctg	aggtttttatc	180
cactggacac	atttgtgtgt	gagaactagg	tcttggttag	gttagcgtaa	cctggtatat	240
gcaactacca	tcctctgggc	caactgtgga	agctgctgca	cttggtgaaga	atcctgagct	300
ttgattcttc	ttcagttctac	gcattttctct	cttccccctc	ctcaccctct	ttttcttata	360
aaactagggtt	ctttatacag	ataagggtcag	tagagttcca	gaataaaaaga	tatgactttt	420
ctgagttatt	tatgtactta	aaatatgttg	tcacagtatt	tgttcccaaa	tatattaaag	480
gtaacccaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa		528

<210> 48  
 <211> 812  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (24)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (81)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (90)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (105)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (751)  
 <223> n equals a,t,g, or c

<400> 48									
taacactttt	aatgctttcc	gggnttcggt	atgtttgttg	tggaaatttg	ttgagccgga				60
ttaacaaatt	tcaccacagg	naaccagctn	ttgacccatt	gattnacgcc	aagytcgaaa				120
tttaaccctt	cactaaagg	aacaaaagct	ggagttcaac	cgcggttggc	gcccgtctta				180
gaactagtgg	atcccccg	ctgcaggaat	tgggcacgag	ctttgatggg	tcatgggcca				240
tgccataccc	cctgtggcaa	tggagtgtgt	ggatgctcac	ctgtgccatc	tgctctcctg				300
tctgtgccag	gaggcacctg	agttctctgc	tgttatcctg	ccccaagggc	ctggggccgag				360
cctctacctg	aagcaactct	gctcttctctg	tcagtctcaa	agcacaagga	ggttcagccc				420
aggaggaagc	cagctgcaat	gtggagacac	gtctctctcc	ccaaccacc	tcatgccacc				480
gccaaccccc	tgccccagga	gcgggcctga	gccacgtccc	ctaggagcag	ctggagatgg				540
ccaaaagagt	gagctcagga	ctactggatc	ccatgcccag	gtgtccagca	gacctcaagg				600
cagaagggtc	acctaaccga	ggagtccaca	gactgatgtg	acctcaggtt	cccacatcag				660
tggccacagg	gcagggccca	cctggtagaa	gtgttctgga	tatggccagg	gtgggtgtgt				720
ggctaagtgg	gcctgaacag	agggaaaccta	nggcccttgg	ccaatgtgat	taaagctgcc				780
atcttgaaaa	aaaaaaaaaa	aaaaaactcg	ag						812

<210> 49  
 <211> 668  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (659)  
 <223> n equals a,t,g, or c

<400> 49									
gacgacagaa	ggggctcttc	tctccccagg	catcaagtga	atagagaaga	ttctatggat				60
gtagaagagg	tccctgggtt	tccgaattgc	cactggattg	cctctatcaa	atacacaaga				120
gtttcatgag	tgagaaataa	ccttctgttg	ctttaaatct	tgggttgtgc	aatacatcag				180
tgagcctacc	atgactaata	cattctatgg	atgcagattt	ctcttctctg	gccattgaca				240
tgagtgtgtt	ttctggatgc	aggttgggtg	atattgctat	cattttctgc	cttctcatgt				300
ttgatctggc	tcttaaccag	ttatttttgg	taaacacttt	atacaacaac	ctcctttctt				360
ctagagattc	tagtttctct	gaaatgaact	ttagttatga	gtaatatata	aaatgtctct				420

gtgtttctgca	catgggcaca	gggaagggaa	caacacacac	tggggcctct	caggggggtgt	480
agtgggggtgg	gaagagggag	aacattagaa	aaagtagcta	atgcatgctg	ggcttaacac	540
ctaattgggtt	gataggtgca	gcaaaccacc	acggcacaca	tttacctagg	taacaaacct	600
tcacatcctg	cacatgtacc	ccagaactta	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaanc	660
gcggccgc						668

<210> 50  
 <211> 3337  
 <212> DNA  
 <213> Homo sapiens

<400> 50						
ggttgatttc	ccctcaactt	tccacaggta	tcttaaaagc	tttgctcact	catcccttct	60
ctgacttagg	atgtgagcat	ctttctgtta	tgctgttgcc	ccactcctat	tgcaatactc	120
ctcttcttaa	gaaagttttt	ctagactaat	gtctagatta	aacttctttt	ctttgacaat	180
aatgatgcca	tgacttggac	aaaatgcccc	ttgctctctg	gtcctgcttt	cttcaccag	240
tgctgcctta	ttggactcct	tgtgcctctc	cttggtctgg	gaaatcagaa	tacacagtgg	300
tatcccactt	ctaagatgcc	tgatctgaag	gacagtaaaa	caactgacct	ttgccagcat	360
gtaaaacaca	tggtttaact	agtctctccag	gaacaacamt	gagcaatcct	gacctgggac	420
tactttactc	ggccatctcc	tacttgagat	gtccctgtgc	tctctgttca	aggacacctt	480
ttctgagcct	ttcttgaaca	agagtggagg	accgataggc	gattaaactg	tccttgacac	540
aacttttagag	cttcwactga	gaatctagaa	gagagttagat	ggaaaaatat	ttttccctcc	600
cctccaaatg	caaggataat	cttacacgag	tccaggagga	aggctcattc	cacactaagt	660
gttctgaatc	aaaaagatga	acaaaataca	gtgccattct	tcaaggrrctt	cacagtctac	720
aggaagggw	tatagttaaa	caaataactg	cagaattgga	aattggagct	gatgtgctta	780
gaagtgtttt	gaacaagggg	catgactgtg	actctctctg	cttttgcaag	cttcaggaaa	840
acctttactc	acagttgaaa	atacagagcc	tcagggtgaa	gccctaactt	cccacagcag	900
atggggctta	tgaggaggaa	gaagtagacg	catggaccag	tcctgttatg	aagacaagtt	960
tcaggtgctc	actgtgtctc	catgagctcc	tatggcccag	aagctggcat	cctgtgagtg	1020
gacggagtct	tgctcggctg	cccaggctgg	agtgcagtta	aatgaaaaaa	cgtaccacga	1080
cagaggttct	aaaacagcac	caaaatatta	atttaatgag	tggagawtag	ttttctttat	1140
caacactaca	attttctttt	cttttttttt	tttttttttt	ttttgagacg	tagtctcact	1200
ctgtcgcctc	ggctggagtg	cagtggcaca	atctcggctc	actgcaagct	cgcctcccg	1260
ggttcacacc	attctcctgc	ctcagcctcc	caagtagctg	ggactacagg	tgcccaccac	1320
cacgcccagc	taatgttctg	tatttttagt	agagatgggg	tttactgtg	ttatctagga	1380
tggtctgac	tcctgacctc	gtgatctgcc	cgctoggcct	cccaaagtgc	tggaattaca	1440
ggtgtgagcc	acattgccc	gcccatttat	gktgktttta	tccatctaac	cagccaccat	1500
atattgtgtg	cttcccatgt	accacaacac	attctgagaa	cttgccacac	atgctctact	1560
ttcgtcttca	catcaacaat	gtgaatctta	agctgtgtgc	aattttgtcc	aaaatgactc	1620
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aagtgtcaca	ttatattgtc	cttgccactg	gcacacagct	taaataaaa	tcaaaccatg	1740
agaagccata	gaaagtaata	tcagagtaca	ggtgagaagt	tgcaattaca	taaatgatca	1800
ttcaagactt	cctggagaag	gcacgagttg	tcctttggag	tgaccaagac	tcacttccaa	1860
gtagaaagct	cagtaatttt	gcttgagaga	tagcatggaa	agggcccagt	cttcagagtg	1920
tggtctgactt	gaatttgagc	tctatcttca	tctatttcta	cccatgtgcc	tctggacatc	1980
ttacttaacc	tctctgaatc	ttcatcttgt	cattgtgaga	aacctgattg	acttgttgta	2040
aagattaaag	aatcatgaa	acacatctag	tccaaaactg	atactatagt	agacatttaa	2100
caagtgtagt	ttgatttaat	tcaagtctct	agggttatagt	aagacaatgg	caaaatatta	2160
attaatcagc	ttctccagtt	tgtgcgtttg	agaagggtaa	gccaaaggag	gactttgttt	2220
tcatatctca	tattgcatcg	tttgtcataa	aaattacaca	tttatacaag	cgcgcacaca	2280
cacacacaca	cacaggcaca	aacactcaga	catgagccac	aatccacaat	gaaggagtgc	2340
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taaaatctct	aaagtactct	tggtgttgac	aatatcroca	cccaaagcca	tattttacct	2460
gttaattatt	caagttgcag	tgaataagaa	acaatgcccc	ggcttcccat	aaaattttcca	2520
aaaattaaac	cagggaaatg	ggcaataaat	gtcatttgaa	atggaactga	tgccaggttaa	2580
ttacaagaca	actgtaaaat	aatggggcat	gaggttcttc	aacaatgcct	aattagtaac	2640
tatatgggca	tttcttggga	aaaaatggca	attacacggg	gcaaacactt	agcagtcac	2700
atcaaaggcc	cttaaccaat	attagcta	taatcttccc	tacaacactc	cagcaggagg	2760
cagcacaagt	cctcattgag	ggaggagaa	kggaagccaa	aagatgaaat	ggaaaatcct	2820
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gattcccagr	ccaagagaga	gagttttcct	taatgataag	gttaattgtg	tgaacaccta	2940
gcttctcct	tatttgctgc	catggctcac	atccttgcct	tccycgagaa	ctccccacac	3000
caaattgtctg	ttgcaggcac	acatgcactc	ttgcgcttat	caaccctttt	ctctttttct	3060
cagcaagaag	gcttttgacc	tcaaatatat	aaaaccaatg	gggggagaag	gaagctatgc	3120
ctctttccac	aaagccaagc	ttgttatatt	ataacatgat	ccacagcttt	tgatttcaac	3180

ttaatgtatg	agatctggaa	ttatttcaga	agtatgattg	atcttgatca	ggtgaagata	3240
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acaaaaaaaa	aaaaaaaaaa	aaaaaaaggg	cggccgc			3337

<210> 51  
 <211> 847  
 <212> DNA  
 <213> Homo sapiens

<400> 51						
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tgtaggttcg	ttgggtgtgt	agtgattaca	gccttgggaa	tgctccgtgg	ggcctctgga	120
atgtgtagag	ggcatctgca	cttaattgtg	tttttccctg	tgctgcttct	gtcccatcca	180
ctttacaaaa	aatgggtcct	aacctggagt	ctatgaacct	ctgcaatgac	atgcaaaatg	240
tcataatgtt	atacttttct	tgggtgaaga	tccctagggt	tggacaaatt	ctcaaaaggg	300
tctctggccc	tgcccttagt	ctctwcmctt	cccaaaaaga	acmcattaaa	tttattgctt	360
taaacagaaa	aattggaggc	atctagaaaa	gtcctccctg	gaggtagcag	agtcaaagga	420
ggtgatgact	tagtggtctg	ttctccggaa	gctcagggtt	ctgggggttc	tattaacagg	480
gtgttaatga	gcagtgtctc	ctaagggggg	ggcaggaaat	ggtgtgctgg	tgccctcaag	540
ggaggagcgc	tgtgagtgcg	cagcatttcc	ttgccacttg	gatcgcatct	agatgtttcc	600
tgtgttggtt	acattcctgc	tgtcacctgt	gattagaagc	agttaccag	cctgggtgac	660
agagtaagac	tctgtctcca	aaaaaataaa	taaataaaag	aaaataaaag	aaaaaatgta	720
aaggcaggaa	tgtgtacagg	acctcacggg	atgtggagg	tacagtgagc	tgagatgcgc	780
cactgccctc	cagcctgggt	gacagagcga	gaatctgtct	ttaaaaaaa	aaaaaaaaa	840
ctccaag						847

<210> 52  
 <211> 832  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (827)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (828)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (829)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (831)  
 <223> n equals a,t,g, or c

<400> 52						
gaattcggca	cgagtatgaa	actaacaaca	tagaatgccc	cccaaacaaa	ttcctctaac	60
ctcactgagt	ttacttgccc	tattactatt	tttttttttt	aagatcttct	gtctcttggt	120
tttgttttat	cccttacctg	atgaaagtga	acatttctag	tggagaaaga	agatcacagt	180
tctctaatat	gggcattaa	agaggggtac	agctagaggg	gaggtgaaaa	cctgcctcca	240
ctgggggtgaa	aaacagtgtg	ctgagggttc	agccagtgat	tacactgggt	aatcaaccag	300
tcccatgttt	cacaaaggag	ttgtaatgat	taacagttca	ggtatgctty	tgaggaaatc	360
taattgagac	ctttgaaaa	tagcattgtt	atgaatgggt	tgggtgttac	ccctggaggg	420
gaaaaggcta	ggaaaaacat	tttaactttt	caagtgtatt	taaattaaca	tccaaatggt	480
tcagtgtgct	ttactggaga	ctgcctgagt	ttggaaattca	aatattgtaa	ccaaattact	540
ccagggtttct	gaactaaaa	gatctattga	tgtttctcaa	agtatagatc	acagagtaag	600
aaaagaggaa	atcaagtctg	gtttatgaca	aacttttttc	catgttaaca	ttggacccaa	660
agatgtttam	aagagctttt	tactactgtg	agagraccag	cgtgatgtga	agacaacgaa	720

cattttaaga agtttgacta gtagacattt cgtttaagtc ttttggaggg tcttggttga 780  
 caacccacaa ttttattgtg gctccccagg ctgggagaa gtggaannnc na 832

<210> 53  
 <211> 819  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (762)  
 <223> n equals a,t,g, or c

<400> 53  
 ggcacgagcc accccacccc accgccacag cccagagccg tgccaggaag ccgcctcgac 60  
 gcagccgtat cttgaggctc cagccccatc cccagggtag cacgccacgt agagacacta 120  
 tttttcactt cgtgtttgtc actcctaaag catgtgtgct agctgcacca accctgggat 180  
 gcctcgggtgc atarggttta tgtgcgtcct cctccttccc tctggagctg gtccccctg 240  
 ggggaactgc tgcccagact gacctgcgtc cttccgcacg tgcaggaaaa tgtccacgtg 300  
 cacttgtcar ggtggggggc acacggggcac caccactgat catctgtggg atcgagttac 360  
 tgcccatgca gatccacagt gcagggccca gtcgctttgg tgagagagtg gacgctgtgg 420  
 tgactccacg gtctgtggct gtgctcagga ggacagagag gggacatcct gagatggttt 480  
 gggcagcccg cggatcctgt gcatgtcccc agagcgtcca ctttctccat ggagcagttg 540  
 agtggcggtg ctgagacaga aagttcaggt tctccactcc ccatgcagcc cccactcccc 600  
 tgtctccggc caggcacgcg tctgggggtg agactccggg tgcccgggcc ctccagacct 660  
 ctttccccac cccagggagc aggcgggtac ttctattccg tttggcttca gaaggaaaa 720  
 gagaacgtaa gttcagggag ttctcgtcca ttctctccc gngggccggg caggcagcag 780  
 ggacagcctt caggaaacag gaggggctcg agggggggc 819

<210> 54  
 <211> 608  
 <212> DNA  
 <213> Homo sapiens

<400> 54  
 ataaaaaaag atgtttttca tttttttcat gttatctatc caagcactgt tccatgggtca 60  
 gcaagtcata ttccataatg tggattttcc aaaataatta ttgaatacag ctattctatg 120  
 gctactttta gtgtttttgt ggtatgtggg gtgggagtggt ttatggaatt accagtatct 180  
 taaattttca aaggaacctt ggaagtctat cactctaaat gaaagtctgt cactctacat 240  
 gaattatgtg ctcaaatttg accaactcag tttaagacac aaaacagtaa tttgaagaag 300  
 gaaaaatgaa gagagtttct agtttaatgg gttaaatttt tgttgttgca atagtaagtt 360  
 tagtctttctt ataattttc taaatgaaaa atcataggta tttgttacca tgtgtgaaga 420  
 ttastttgtt aaaagcaaaa gtggtcgtgt gatatgctaa atgttaatta ctgattttat 480  
 atgttttaaat cagcccaaac aaattatgtc tgtgccatcc aggggtctgtt gttaatcttt 540  
 ttctgagtag ttggattggg ataaagggct tgtactatgc actttttatt aatgaataaa 600  
 tagaaaaac 608

<210> 55  
 <211> 612  
 <212> DNA  
 <213> Homo sapiens

<400> 55  
 cccgggtcga cccacgcgtc cggaaggca ggcattgggt gtggccctcg gagaagttag 60  
 gagtcccccga gctcaagata cagtggcaaa gacctagtggt tccccaccc ccacttctct 120  
 cagttcctgg catgaggaga gaagaccctg ctctgggtgga gctgacaacc tttgaggctg 180  
 ggaggagagc agcctctggg catcgttccc agtgtccctc acactaaaaac ggcgtagatg 240  
 gcaaccccc accccacccc cgctgctcaa ctcttgtgtt tgttgttctg tttgccccat 300  
 ttatctgttg ctgtttttgt gttgtcttcc cctgctccgc attttgtaaa atggccctg 360  
 ggggagtgtt tttgctggat ctgctccctc tcgctctctc actccactac tttttggaac 420  
 aaagtgtatg cagaatgcgg tgggtgggtg ggtcttttgt actgttggat taataaaatg 480  
 attttaaaat cccagaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 540  
 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 600



aagggggggc cg

612

<210> 56  
 <211> 957  
 <212> DNA  
 <213> Homo sapiens

<400> 56	ggtcgaccca	cgcgctccgc	cacgcgtccg	gctggagata	aaatttatgt	tgttaaaaga	60
	gaaaatgcaa	tattcttttag	gatgtacagc	tttaaagctg	cattaggagt	aaaacacagg	120
	agggtacatgc	agcatttagt	gatcatttct	gctcttttct	gtagtcttct	agggtactcta	180
	atcacaaaat	gttaatgcgc	atcttttagg	gtaaaataat	gtgctctaaa	gaatatggta	240
	gtcactgata	atttgtaatt	atttactaga	ttttttgtta	ctaaataatt	caatgggtatg	300
	actatagtat	cagtaatcag	cctgctgaag	aatgaataat	gcaatcaatt	tacattcttt	360
	tgttgccatt	gatagaccag	taacagctta	cctttcctat	attctgtagg	catctaagaa	420
	gaaaatatac	caaaacttta	agatatcaaa	atataatttt	cagaggtaaa	acaatgaccc	480
	tcgtaaatac	atagtaagt	cgtgtcataa	atatttttgc	ctgatgaatg	agggaatcaa	540
	cataatgggtg	atgctgattc	ccagaaaatt	ccacagataa	attatatata	ggcactgata	600
	gaatgctaga	ataagattgt	aagatcagta	aattgggctg	ggtgcagtgg	cctgtacccc	660
	tagcagtttg	agaggctgag	acaagaggat	cacttgaacc	caggagtga	agaccagcct	720
	gggcaacatg	tcaaaactcc	atctctacaa	aaaatacaaa	aaatagctgg	gcatgatggt	780
	gcatgcctgt	agtcccagct	acttgggagg	ctgagggtga	aggatcggtt	gagcccagaa	840
	tgttgagact	gcagtgggct	gtgatcatgc	cactgcactg	tagcctcagc	ctgggtgaca	900
	gagtgcgctc	ttgtctccag	aaaagaaaaa	agaaaaaaa	aaaaaaaaag	ggcggcc	957

<210> 57  
 <211> 622  
 <212> DNA  
 <213> Homo sapiens

<400> 57	aggcgatctc	ggctcactgc	aacctctgtc	tcctgggttt	argsgrttct	yytkyctcag	60
	cctcccaagt	agggtgggact	acagggtgtg	gccaccacgc	cctgctaatt	ctttttgtat	120
	tttttagtaga	gacggggatt	caccatattg	gtcagtcctg	tctcaaactc	ctgacctctg	180
	gtgatccacc	tacctcagcc	tcccaaagt	ctgggattac	aggcatgagc	cacagtgcct	240
	tgccagtttt	gtttattttg	ttactgcttt	ttcctctccc	tctggaacca	ctaratgtgt	300
	agtcatgcac	arcgtgtgtg	tctctctcat	gcccgtcata	tagtcacagc	agctgttctt	360
	tgattcattt	gttcattcaa	catatatact	ttgagaggct	ggcacaatgc	caggcactaa	420
	gtttgatagt	ggagacacac	aaattaaaaa	gagattcata	tcctgacctc	aagttgatga	480
	caatttagaa	gggctatgcg	taggaaaaa	gaaaactata	agcaatagac	tcagtgtcac	540
	ggtccagata	tatccaagac	acttggagca	cagagggtgt	cctgctccaa	gggagtctta	600
	tgtctttttat	tagccataga	ta				622

<210> 58  
 <211> 372  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (367)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (369)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (372)  
 <223> n equals a,t,g, or c

<400> 58  
gaattcggca cgaggagaga gagagagaga gagagagaga gagacgctcc tccatcgggt 60  
ttggggaggg agcactctgg gactgtgaga caaggaagca gggccagcag tgagactatg 120  
agccaagcaa agagaagtct cagtggagca tgaggaggga gcaktccaka tgccaacaag 180  
gaaatgcgtt tatggctaca agagtgcctc tgctttctcc tcctctcctc ccaccaagga 240  
ttcttccacc ttaatcttgt tttcatatgc ctcttcttac ttcacccatg tttgttgta 300  
tgcaataaaa ggttttcttc ttccaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 360  
aaaaaaaaana an 372

<210> 59  
<211> 407  
<212> DNA  
<213> Homo sapiens

<400> 59  
gaattcggca cgagctcgtg ccgaattcgg cagcagggtta acccagggcc tagacttcta 60  
gtgcctctga ggcagaacca aaggagcctg cactggggga aatccctttt cctgcctgcc 120  
tgtctgcctg tgacctgtgt acgtattaca ggcttttagga ccagctgatt gttatgcttg 180  
caggatgggt ttgaaacaga aacaatactt gtttactgta ggaatcctat ttatattatt 240  
tttcagtcct gtgaatgctg tgaaaagatt tattcctttg aggccaggaa gctcccaggc 300  
atatatgctt ctagggttagg attgtcctga ctactaaag atgccaggat attggggctg 360  
aggggagttt gaggtgttaa aaaaaaaaaa aaaaaaaaaa actcgag 407

<210> 60  
<211> 551  
<212> DNA  
<213> Homo sapiens

<400> 60  
ggcacagctg gcgggacccc ttcttttaaaa gactctgaga gtaaaagggg aaatacagtt 60  
ttgaaagatc tgaaattgat cagtataaaa attggatcac ttggattagg aactggagaa 120  
gatgatgact atgttgatga tttaaatagt accagccatc gctcagagaa aagttagata 180  
agtattgggt aagagataga agaagacctt tctgtggaaa tagatgacat caataccagt 240  
gataagcttg atgacctcac acaagatctg actgtatccc agctcagtga tgttgcggt 300  
tatctggaag atgttgcata gacacgaaga aggaagtatt ctaattaaca aggacagagg 360  
actgaccggt tccatttttt ttttttccag acaatcactc agctggaatg tctgctctct 420  
attgggtgct tgcatctcaa aaacactgca gatatttttt aaaagtaatt ttcattttac 480  
taaacaaaaa acttcctatt tgaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa 540  
aaagggcggc c 551

<210> 61  
<211> 995  
<212> DNA  
<213> Homo sapiens

<400> 61  
ggcacgagcc tgcctcagcc ttctgactag ctgagactat aggtgcatgc caccacacca 60  
agctaataatt ttttaaccaa taggatttag ggtgttttgt tgtgtggcaa tggatatctg 120  
aaacagaaat caatatgtta cacccttccc cacaaatata atgacactcc atatcctcct 180  
taacttgcctg ttttttctc ttgttgcatc taccacctgg ctactgtgt atctacctat 240  
ttgttattgt ctccctatcc ccgctggaac acaactctg ggaaggcaga gactttgtct 300  
tattcattac tgtatctgag cgcctggaat agtgtctaaag ataggccctc aatacatatt 360  
tgttaaatga aggcataatat ttaatttaac ttgataagtt tgctttttgt agacatagca 420  
agtccataaa aaggaaagac aaattaattt aaattgcccc tgccgacagc ctccctctt 480  
atggacacaa tatctggaga tgtctaaaat tactggcggg ttcttccgcc tttccctatt 540  
ggaggcatcc ctccccaggg ggaaaggagg taagattctg ctcttttaac acatactgac 600  
ctcaggagga aagggaactag aaatgtatgg actgaatgtc tgtgtgcctt gcaaatcat 660  
atggtgaaat cctaaacccc aatatgatgg tattaagaag tgagacctt ggaggtgatt 720  
aggtcatgag ggtgaagcct tcaggaatgg gattagtgc cttataaaaag agacttcaga 780  
gaattctcta gccctcttta tgccatgtaa ggacacagtg agaagatgac catctatgaa 840  
ccaggaagca ggccctcacc agacatcata tcttccagca ctttgatctt agacttccta 900  
gcctccagaa ctgcaagaaa taaatgtttg ctgtttaagc catccagctt atgatattct 960  
ggtatagtag cctgaactaa gacaaaaaaa aaaaaa 995

<210> 62  
 <211> 268  
 <212> DNA  
 <213> Homo sapiens

<400> 62	tttttttttt	tttttttttt	tttaaattgag	gggacctgtt	cctgacaaaac	tacttgtttc	60
	ctaaatgaat	cccaaacttg	cttgaattcc	tacctcttga	cctttgaaaa	atggggaacac	120
	gctgctcttg	cattactggc	agctgcaatg	cagcattttac	ctggactatc	tctgcatcct	180
	gttcttgtgt	ttctggagtc	actgggaagc	tgtgcaaccc	cacaccccag	agcagcacca	240
	gcagcaaaaa	aaaaaaaaaa	aaaaaaaa				268

<210> 63  
 <211> 870  
 <212> DNA  
 <213> Homo sapiens

<400> 63	ggcacgagac	caccgcgcgc	tggcctatgt	agctaccttc	tgatctaatt	tggtatgatg	60
	gggtagagaa	gggttagttta	gagagaatgt	ttcctgtcct	atcttctttt	acccatctca	120
	acacttttac	ccctctaaaa	ctgttcaaca	tgttttcctc	tttggaatc	tttcttcatg	180
	tgccctttatt	cattgtattt	tctatgtctc	tacttcttga	acttaaacia	aacaaaaaac	240
	cctgcaattc	cacttctctt	atttcccatg	ggccctactt	ataggtctct	gccaaattat	300
	gctggctgtt	ctgttttttt	cttcatattc	ccttggtgaa	cttgcccaca	gtcttggtt	360
	gaactgtact	tttatataac	tgattttcaa	atcttgaact	cttctaaatt	tctacctgct	420
	ggagccgggc	acagtggctc	acgcctgtaa	tctcagcctc	ccgaagtgtc	aggatcacag	480
	gcaagatagg	tatttttaaat	tgtcatttaa	cagatggcaa	atagccacag	aaaagtaaag	540
	ccactttttc	aaactcacia	agtcaaattg	ttggcctagt	tctgtcagac	tgtaaagccc	600
	atgcttttaa	ttggtatcta	atactgtctc	ctatcagtag	actatcagat	tatcattcct	660
	aaagatatta	aaagaatggg	tgctctaggg	ttggagttca	aaacattaat	agaattatac	720
	tattaagggt	gcattgtgac	actttgctgc	tgtgagagac	ctggatgtct	tgtttgctgg	780
	tcattttcaa	ggctgaagag	aaacagacat	gcctgtcctt	acaaaaaaa	aaaaaaaaaa	840
	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa				870

<210> 64  
 <211> 556  
 <212> DNA  
 <213> Homo sapiens

<400> 64	ggacagagtt	aygcaagctc	taatacgact	cactataggg	aaagctggta	cgctgcagg	60
	taccgttccg	gaattcccgg	gtcgacccac	gcgtccggga	agttatatg	aagcagggga	120
	ttttttcaaa	gatgagaatt	ctattacatt	ttgcttgga	gcattgtgaa	acattccaga	180
	ccaaaggaaa	agttgaagtt	ccaagtgggc	atttagtggt	gtcttatcta	tgactgttaa	240
	tttttttaat	atgctttttc	tgtttcaaat	aaaatgcttt	ttctgtttca	aataagctct	300
	ttggttggtc	tgttttctgc	aactctgttg	ggtgtttttg	gtaactagac	aaccccaaac	360
	tcctccaaat	ggttttctagg	actctttctt	tccttaaattg	gtttctggga	ttttcttatt	420
	tccattttca	tttctttttc	ttgcttccct	tcctattatc	atcacactta	tgtggagtcc	480
	agtgtcagg	tcctaggaga	actaaagtca	tcctgtcagt	gtagttttga	tctaaaaaaa	540
	aaaaaaaaag	gcggcc					556

<210> 65  
 <211> 1302  
 <212> DNA  
 <213> Homo sapiens

<400> 65	ggcaagatgg	ctgccctgac	agcggagcat	tttgcagcac	tccagagcct	gctcaaggcc	60
	tcctcgaaag	atgttgctcag	acagctgtgt	caagaaagct	tttccagttc	agcccttggc	120
	ttgaaaaaac	tcttggtatg	tacatgttcc	agcttgtctg	tgaccagga	ggaggcagag	180
	gaactgctcc	aggctctgca	cgcctcact	aggctgggtg	cattccgtga	cctgtcctct	240

gccgaggcaa	ttctggctct	ctttccagaa	aattttccacc	aaaacctcaa	aaacctgctg	300
acaaagatca	tcttagaaca	tgtgtctact	tgagaaaccg	aagcccaggc	aaatcagatc	360
tctctgccac	gcctggctga	tctggactgg	agagtggata	tcaaaacctc	ctcagacagc	420
atcagccgca	tgcccgctcc	cacctgcctg	ctccagatga	agatccaaga	agatcccagc	480
ctatgccggag	acaaaccctc	catctcagct	gtcaccgtgg	agctgagcaa	agaaacactg	540
gacaccatgt	tagatggcct	gggcccgcac	cgagaccaac	tctctgccgt	ggccagtata	600
tgatccagcc	agctgccagg	gccactgccca	tgaccagct	gctcatgagt	gataaatgtc	660
tccccatatg	caggctgccc	ttgcagctgc	agctgacaac	aggcaggatg	gtggggacag	720
cagggggcta	ctgccatcca	gaagttacag	ttggattggg	aagaagcagc	cagatccccc	780
gctgtttctca	ctcatcttct	ttctctttct	gaagctggag	agcagaagcc	cccatctttg	840
aaaagctcct	gagtgaact	taattaccac	catggcaggg	tgagggaaca	tttgcctcgt	900
cagctgcctc	tgcatagctg	tttgagaaat	tcaggcccaa	atcatgcagc	ctatccaata	960
agtaagttta	tttccaacat	tagctctaata	tagttcattt	ccaatcccag	aacacatgga	1020
gggaatcgga	caggtgatgc	cagcagttcc	tgctcctctg	tcagggaagc	caggcagagc	1080
ccacagagca	tggtccatcc	agagtgttcc	ctgagccccc	tccaccatac	tggaacccct	1140
cttcagtgtg	ggaagtctga	aatgggtgct	aattcccttc	ttcatgaaac	cagggccctc	1200
ttccttcac	taatgcagcc	actcctaggt	gaagaagtgg	gaataattgg	aaataaacia	1260
cagttctaaa	acttcaaaaa	aagtcgacgc	ggccgcaagt	tt		1302

<210> 66  
 <211> 685  
 <212> DNA  
 <213> Homo sapiens

<400> 66						
gaattcggca	cgagaaacia	atgagcagtt	cttgggacag	gtgctttgaa	agactaatgt	60
ttaaaccact	gtttctgaaa	taaattacc	tttattcaaa	ctcagactga	ttttggcatc	120
tgtttaatac	agagtcaacg	taakkcatac	tgcccttttc	ggttacttta	aaactcagaa	180
gctattttct	attccccctt	gaggagatga	actcttgaac	tatggctttt	tattttttatt	240
cttccttttc	tgtttttggg	taagagacag	gggtctagctt	tttgtccctg	agtggataac	300
agtggcatca	tcatagtctc	ctgcagcctc	aaattcctgg	gctcaagcga	tcctcctgct	360
tcggcctccc	aagtagcagg	gactgcaggc	atgggtggctc	acgcctgtaa	ttccagcact	420
gtgggaggct	gaggcgggca	gattacgaga	tcaggagatc	gagagaatcc	tgccaacgt	480
gatgaaaccc	tgtctctact	gaaatacaaa	aaattagctg	ggcatgggtg	tggttgccctg	540
tagtccccgc	tacttgcgag	gctgaggcag	gagaatcggt	tgaacccagg	aggcggaggt	600
tgcaagtgc	caagttcacg	ccactgcact	ctagcctggc	aacagagcaa	acttcgtctc	660
aaaaaaaaaa	aaaaaaaaaa	ctcga				685

<210> 67  
 <211> 527  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (492)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (494)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (522)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (526)  
 <223> n equals a,t,g, or c

<400> 67

ggcacgagaa	aaattctcaa	gacccatgtg	aaagtcagag	aggggtgtgg	tggcctggct	60
ggcctgaaga	caggtgttct	gatgattctg	gcaggggcc	ccatttgcct	ggcactgaaa	120
ttatatagtg	atctttactg	tatgagcacc	gtgcccac	gggcaagctg	tgactcctgt	180
caccaaacac	tcaggaacca	ttgcttttgg	ggcctccagg	atggtttcat	ttgtaggcat	240
ctgccttctg	ttggggtcct	ttttttctcc	ttctctacag	gggacaatat	ggcaccaccc	300
agcaaaacct	gatgggagt	gacatggact	accctcattt	gcagtaatca	tgggcaagca	360
ggtggtaccc	acagtgtact	ggagaatgcc	ctaccctcgw	aggggggtgc	ccggtaccya	420
attcgcccta	tagtgatcgt	attacaattc	actggccgtc	gtttacaaac	gtcgtgactg	480
ggaaaacctg	gngntaccca	acttaatcgc	cttgacagaaa	tnccnt		527

<210> 68  
 <211> 813  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (639)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (766)  
 <223> n equals a,t,g, or c

<400> 68						
tctaggaatt	agtggatccc	cccgggctgc	aggaattcgg	cacgagtatg	gttcttgttc	60
ttaccactct	aagcctgctc	ccatttgctaa	tttccccctg	taattatgaa	atcaatttct	120
ccctatagca	ggttatattgg	catttcaaag	caggaaataa	aaagtatgac	gagaactatg	180
aaaggaaaag	gtttttattg	atctttttta	gaaatgaaat	ttgaaataca	caagggacgc	240
atgaatttta	tctttcatga	acatttgatg	rgtmagtgtg	ggtgccccag	taaagattct	300
ggcttcctgc	aaaggataag	gtcagaagta	ctgtcctgat	ttatccttga	tgtgttcac	360
acaggttctc	ttgtctaattg	gcccataact	aagtgaggct	ttgattatgg	tatctaata	420
tgaataatca	aagtttattg	caagatgttt	taaccagact	tctcctgatt	tggaaatttt	480
ttwcctgtta	ttacaatgca	gtaatcccc	tataatagaa	tatcaagcca	ggtgtagtgg	540
ctaacgcctg	caatcccatt	actttgggag	gcccagctgg	gaggattgct	tgggcctggg	600
agtttgagaa	cagcctgggg	agtatagtga	gaccttgtnt	gtacaaaaaa	acaaaaaatt	660
agccaagtgc	agtggcatgc	gtgggattgt	cgggggtggg	ggagcctgga	atcacttgcg	720
cccgggaggt	ggaggttgca	gtgagccaga	ttgtgccgct	gcgctntagt	cctgagtgc	780
agagtgcagc	cctttttcaa	aaaaaaaaaa	aaa			813

<210> 69  
 <211> 999  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (30)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (88)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (90)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (948)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (969)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (983)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (986)

<223> n equals a,t,g, or c

<400> 69

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cagtgtgctg	gaattcggct	tgycaccaac	gasttcatcc	tcagcctgac	agccaagctg	240
gatgagaatg	aatggggctc	tgtgaggcat	cttgcagctc	cctcgacaat	gctctgcccg	300
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acagcccttg	cctcttccct	gagtgcctca	gagtgacaga	gatgaagaag	ccacttggct	420
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tgggaattgta	atcccccatg	tgtagacgga	gggaggtgat	tggatcatgg	aggcagtttc	540
ccccaagctg	ttctcatgat	agtgagtgag	ttctcacgag	atctgatggt	tttataagtg	600
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aagtccatta	aagctccttt	gtttataaat	taccagctct	cagggtatttc	tttatagcag	780
tataagaatg	aactaataca	gtgtgagaac	taatacagtc	tgaggatgaa	ctcgttggtg	840
acaagccgaa	ttctgcagat	atccatcaca	ctggcgccg	yticgagcatg	catctagagg	900
gsccaattcg	ccctatagtg	agtcgtatta	caattcactg	gccgtcgntt	tacaacgtcg	960
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<210> 70

<211> 1089

<212> DNA

<213> Homo sapiens

<220>

<221> SITE

<222> (38)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (48)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (60)

<223> n equals a,t,g, or c

<220>

<221> SITE

<222> (92)

<223> n equals a,t,g, or c

<400> 70

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tttttttttt	ttttgtagta	acatccagta	ttttaatatt	tatgcttgat	aagtcattta	180

agttgaagac	tctttatgta	ttaatttcag	caagtaacat	aaccacacag	aatagacaat	240
gaaagcataa	ttagtcatta	tacacaatta	taatttgata	aaaaatttca	acataacag	300
aagtataaag	aatgtgtatc	tatcatgcag	cttctacaat	tatcattcca	actcctcggt	360
tctttgatat	tgccaacaat	ttacaccctg	cccccaattcc	aaatttggaa	acaagtccca	420
gatattaata	taatttcctc	ttcaacattt	cagtatgcct	gagagattct	tgtttaaaaa	480
aaacattttt	tttgaggggc	acaggggtctc	tctctgtcac	ccaggctgga	gtgtaatggg	540
gtgatcttgg	ctcactgcaa	acctctgcct	cccaggctca	agcaattctc	ctggttcagc	600
ctcccaggta	gctaggacta	caggcgacac	ccactgctct	aggaccgtgt	actccttttag	660
agatgggggt	tcaccatggt	agccaggctg	gactcaaact	tctgagctca	ggtgatccgc	720
ccaccttggc	ctcacaaagt	gctgggatta	caggcataag	ccagggtgcc	aagccttggt	780
ttaaaattta	atctttatgc	tctgaatgga	aaggctataa	atggagttca	atgaaaggaa	840
aaaacattta	aaataatagaa	gttcttttct	tcttcttttt	aagatggagt	cttgctctgt	900
tgcccaagct	ggagtgcagt	ggcacgatct	cagctcactg	cagcctcccc	tgggttcaag	960
tgatcctcct	gccttagcct	cccaagtacc	tgggattaca	agcgtgcacc	accaggcctg	1020
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aactcctgg						1089

<210> 71  
 <211> 475  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (469)  
 <223> n equals a,t,g, or c

<400> 71						
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gacccacgcg	tccgcggacg	gaccctgcct	ccccagctta	tcccaggcca	gaggctgcat	120
gccactgtcc	ccggcagcgc	caacccctgc	ttggctgtta	tgggtgctgg	aataagcctc	180
gcagcccagg	tccagagccc	ccggcgagcc	ggtcccataa	ccggcccccct	gcccctgccc	240
ctgctcctgc	tctccccctt	cgggccccct	cctcctgcaa	aacccgctcc	cgaagcggcg	300
ctgccgtctg	cagccacgcg	ggggcgcgcg	ggagctctgc	gggcgctgga	acctgcagac	360
ccggcctcgg	tcagctggga	ggggccccgc	ccggcacaaa	gcacccatgg	gaataaaggc	420
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<210> 72  
 <211> 868  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> n equals a,t,g, or c

<400> 72						
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tgcttttagag	gacttccctc	ctattccatg	tgcttggaag	tgatgagcag	agggaagact	180
ttcaacgtaa	atcctgggtg	tccatctgga	ccactgccac	caaccaaggt	ggtcacatgg	240
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gtasagcact	tgagcccagg	agttcaagac	taaaacctgg	gcaacagcga	gaccctgtct	420
ctacaaaaag	tttaaaaaatt	agctgagggg	ggtggtgtgc	acctgtagtc	gtagtaytca	480
ggaggtgaa	atgggaagat	cacttgagcc	cagaaatttg	aggctgcagt	gaactaaaaa	540
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caattaaaaa	acaggccagg	tggtggggct	tgtgcctgta	atcccaaacac	tttggggaggc	660
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gagctggaat	tgtgtcactg	cactccag				868

<210> 73  
 <211> 920  
 <212> DNA  
 <213> Homo sapiens

<400> 73  
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 tgcttcctgc ccgtcacgtg tgtgctccta gccgggggtcg ggggagctgg tatcttggcc 180  
 cttctgggag gacgcgcaca gcccagggag gcagagcccc agacgggaat gggcttttca 240  
 raggtggggt gcggggcgagg ggacgatgca ttatttttaa tatttgattt atttttccaa 300  
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 cctcggccty tcacctccag cgcgggggcg cccctgctg tcggaagcgg ctgtgaccgg 420  
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 gggagcgcgc cgcgcgcgc cgcgtacggc cgyttgacct catctttgag cccggcccca 600  
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 aggagtcat gaaggcagaa atgcctgggg cccacgaaca tcccagtggt gccctggacg 720  
 ggacatcatg ctgggcaaca cagctaaaaat gcgggtgaag accagatttc ttgcacatgg 780  
 cggtagcggg atgctcccta gagagcttca agtggattct ttgtttttta ttttctctct 840  
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 aaaaaaaaaa aacggcacga 920

<210> 74  
 <211> 724  
 <212> DNA  
 <213> Homo sapiens

<400> 74  
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 tggggcggtg gtgcactttc tactgctgtt gctctatcat cattagacaa gtgtatagga 180  
 aatacatgat gagcacctac aatccaagaa ttaagtttta ttcacactcg cgctctcact 240  
 actattttaca cagtaagaaa cttttaaatg agcaattaaa ggaatwaacc aaaargarga 300  
 aaagrataca gactgggcamc camcaaactg gaatacggga agacatgaga aagatgatta 360  
 accaatgaaa aaaagagaag aatttcatta gagaatggga atgggagaag agtttttgaa 420  
 atgagtatca gattatcaat tattcattac gaagtagaac accccagagt aagcaaaaat 480  
 ttcttaacat ttagtaataa ctacatatcc actatatcca aggtcctgtg ttaaaagctg 540  
 tgggtggaggc tgggcatact ggcttgtgcc tataatccca gcactttggg aggctgaggt 600  
 ggggtggatca cccgaggtca ggagttcgag accagcctgg ccaacacagt gaaaccccg 660  
 ctctactaaa aatacaaaaa ttacctgagt gtgggtggcg acacccgtag tcccagctac 720  
 tcga 724

<210> 75  
 <211> 905  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (343)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (879)  
 <223> n equals a,t,g, or c

<400> 75  
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 cccccccatc tcgccaccgc caggcgccct tgcgcaggag aaacagggaa ggaagggggc 180  
 ggcctggccc tgcgctctgc accctgactc cctgggcgat gatgggggct ggctactctg 240



gccgggatgc	ggaccccacc	ctcgcccg	cccaggactc	accttgtcct	tgtgctgctc	300
cagccactct	cgcagcgtgg	ccagcacgat	ctcggcggcc	gcntcamarg	ggtagcctra	360
rgcgggtggg	gcgggagtga	gtcctaggct	ctggccccgc	ccactccccct	gtccgccccg	420
gccccctccg	gcgtctgggt	ccaccgcccc	ctcctgggtcc	ttgcctttct	tccagactca	480
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cggagccggt	gctccagcag	caggtccaga	ctgctcaggt	agcagctgcg	gagctcggca	660
gcctgactgg	cgctgggctc	cccgtaggcg	atgggccccca	ctgtgtggat	gacgtctacg	720
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gcgaargccc	ccaccctgtg	ggccccctcg	agccccgaant	cgcacgcgca	cagagccccg	900
cgccc						905

<210> 76  
 <211> 779  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (16)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (22)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (35)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (49)  
 <223> n equals a,t,g, or c

<400> 76						
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gcttttcacc	gaaatttggg	gcgctgattc	ataccattcc	ggccgcgggt	attgggtggg	180
catcaattgt	tgtgttcggg	ctgattgccg	tcgcaggcgc	aaggatatgg	gtacaaaacc	240
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cgggtgattt	tgctctcacg	ctgggcgggt	ttacgttggg	agggattggg	acagcaacct	360
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tgacaacgta	cgcattgttc	atgccggatg	cggcgtaaac	gccttatccg	gcctacaaaa	540
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aagcttacat	ttgtcatcag	tatcaaccac	cgggtaaccg	gcggtgatgg	ctttttgacg	660
agctacagac	aaaaatgcat	tcgtcattga	ttagccccgc	tagttgtcgc	ttttgccgtg	720
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<210> 77  
 <211> 1305  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1046)  
 <223> n equals a,t,g, or c

<220>

<221> SITE  
 <222> (1048)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1207)  
 <223> n equals a,t,g, or c

<400> 77  
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 gcttcattta taaagtatat ttggtcacaa cattgtatga gaagctgcac agagggggca 180  
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 tattttattt tattttattt tattttattt agagacaagg tcttgctctg ttaccaggc 300  
 tagagggtag tggcatgac atagctcact gcagccttga actcctggac tctagcgatc 360  
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 taagtgaagg aaaacctgtg gtcactctga gggcaagatt agagctacag ctgcagttaa 780  
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 ccagttccat tcccacctgt gtgtgcagag caacagagtc cagatcgtga ggaacgtggt 1020  
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 cccactntgc ccactgccag cagcagcctg gggctccatg ctcaactcca actcttgccg 1260  
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<210> 78  
 <211> 1085  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (6)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (7)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (10)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (12)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (56)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE

&lt;222&gt; (653)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 78

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ggtcgacca	cgcgctccgc	gaccgtgggt	aaaaatataa	tagcattcgg	tcaagcttat	120
cattcagcca	tatttgtatt	gtaatgggtt	ttcattgcaa	gcaacagact	ctgactctag	180
ttatcacgaa	caagaagaaa	aggtcttccc	tctgttggga	agatgtggag	aaacttaccg	240
aattgaagag	aaagccgaag	aaccagggtc	ggaaagggac	agcattcagg	acacgtctgg	300
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gatgggggct	ttgctggcaa	aacttacttt	ttgaggttct	ctctttggct	tgtctggggg	780
tgtttttaat	atgttgggat	tagaaatcaa	tgtgattcca	agtgtcttgt	actcagaaaa	840
ttttaactgt	cttgggtttg	tgctgtctga	ttctcctggc	ttcccarcar	ttaccarctt	900
atztatatat	ataaatttat	ataaataata	aatatataca	tatacaagtt	tatatataat	960
caataacaaa	tatatatatt	tatatatatt	tttycttttt	ttctttttga	gacaggtctt	1020
gcactccagc	ctggatgaca	gagcgaactc	cgtctcaaaa	aaaaaaaaaa	aaaaaaaggg	1080
cggcc						1085

&lt;210&gt; 79

&lt;211&gt; 298

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 79

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cacagatgac	tctttggtgt	tgggtctttt	gtctgcagtg	aatgttcaac	agtttgccca	120
ggaactgggg	gatcatatat	gtcttagtgg	acaggggtct	gaagtacact	ggaatttact	180
gagaaacttg	tttgtaaaaa	ctatagttaa	taattatttg	atctttctac	aaaaatatat	240
tttggaataa	tgtatactgt	caattaaagt	gtttttgtgt	aaaaaaaaaa	aaaaaaaaaa	298

&lt;210&gt; 80

&lt;211&gt; 505

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 80

attacccttc	cactaaaggg	aaccaaagc	tggagctccc	accgcgggtg	cggccgctct	60
agaactagtg	gatcccccg	gctgcaggaa	ttcggcacga	gtcacatat	gaccctaacc	120
tactttttcca	aactcttctc	ttacatcctt	tctcaactat	tataagcacc	agtcatactg	180
tgctgctaga	catacacaaa	gaacaacatg	cttttctgtg	ccttgggcat	gacattttct	240
cttccatgca	cttacttttt	aactccttgt	tttgtttaat	tagcaaatgt	ttattgattg	300
cctgcaatat	gccatgtcct	gtgctaggca	gtgaaagtat	aaagataaat	aaacaagacc	360
cggatagtga	aggagatcat	aatctagtgt	gacagactaa	aatataaata	aataattata	420
ataaatcttg	ttaagtgtca	agatatgagt	ttgaraaaaa	aagaaaaaaa	ttccggggaca	480
atggaaaaaa	aaaaaaaaaa	ctcga				505

&lt;210&gt; 81

&lt;211&gt; 733

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (303)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;



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<220>
<221> SITE
<222> (1470)
<223> n equals a,t,g, or c
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<220>  
 <221> SITE  
 <222> (1473)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1519)  
 <223> n equals a,t,g, or c

<400> 86  
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 ggaagagaga gaaaagaaag atggaaaacc agtgcagcct gtcaagcgag agcttttacg 180  
 gcatagggac tacaaggtgg acttggaatc caagcttggg aagacaattg tcattaccaa 240  
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 gtctatgcgt gtggaacggt ccaccctgga tcaggtgaag aaacgttttg aggtcaacaa 420  
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 cagtgtatca ctggagtcac aggaccctgc ccacctgagt tcccaataaa gaaaaacctc 900  
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<210> 87  
 <211> 728  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (526)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (604)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (668)  
 <223> n equals a,t,g, or c

<400> 87  
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 atggtggctc atgcctgtga tcccagagct ttgggaagcc gaggcaggag gattgcttga 180  
 gccaccaggt tcaagaccag cctgggcaac atagttagac actgtatcta caaaaaatta 240  
 aaaaattagc caggcggctg gacaagggtg ctcacgcctg taattctagc actttgggag 300  
 gccaaagggt gcagatcacc tgagatcgag agttcaagac cagcctgacc aacatggaga 360

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cagctacttg	ggaggctgag	gcaggagaat	cacttgaacc	cgggatgcag	aagttgcggt	480
gagccaagat	catgccgttg	cactccagcc	tgggtaacaa	gagtgnaact	ccatttcaaa	540
ggaaaaaaaa	aaaattagcc	aggcatgggtg	gcacagctat	agtcccagct	actcagtagg	600
ctgnagtggg	aggactgctt	aagcctgggg	tgccaaggat	gcagtgcgct	gtgatcacgc	660
cactgtantc	cagcctgggt	gacagagtga	gactttgtcc	aaaaaaaaaa	aaggaaaaaa	720
gaggaaaa						728

&lt;210&gt; 88

&lt;211&gt; 1516

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 88

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aaaaaaaaaa	aaaaaa					1516

&lt;210&gt; 89

&lt;211&gt; 887

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (881)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 89

cgactcacta	taggcgctac	gaggtcgacg	gtatcgataa	gcttgatata	gaattccaaa	60
aacctgatac	tacttcaaga	gtttctgctc	agaagaaaat	gagagttatc	ataataggaa	120
gctgtggcgg	tccattgccaa	ctgtgctgtg	tcacatacag	cgatgagagt	ggctttcata	180
cttttttttt	tttttaagtt	aacaccctcc	tttaccctcc	gcagtatctc	aggttataga	240
atcagagatg	cagcagtgac	aaatggcatt	tttaacttgta	aaatcgtgtg	atgatgctta	300
tcattttgaa	atagaagaat	aaaaacctgg	tcccgtttca	ccagacatga	atttcaagtg	360
gagtcgtcgt	tctctgagag	tgagtgtctt	gacattttca	cccaggccct	cctgtcatca	420
catcacccgc	tgctcactgg	gggtggccgt	aaacgtcctg	cgttgctata	ttaggatctc	480
tgcagttcag	gcttcaaaac	cagttcagtg	tatccggggc	acgggtagtg	gtggtgcag	540
cctgtctgtg	tgccccgctg	gcgagctgta	gcttgcggct	gcgtgcctcg	cggccactca	600
cagggtcgca	gacaatcgag	gcgagggcgc	tggccgccag	cagctcacag	cgcgggggtc	660
atgtggtcgc	tcctcgaggg	tttcgttttt	gttctgcttc	attaagactg	gaatcaagct	720

tacatgtaaa	ctattggttaa	tttaagtttc	cttttgtgtc	attcagtgta	aaactgtcta	780
atttgaaaaa	aaatgtaggt	tatgaaaata	aagatttagg	cactgttaaa	aaaggaattc	840
ctgcagcccg	ggggatccac	tagttctaga	gcggccgacc	ncttcgg		887

<210> 90  
 <211> 391  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1)  
 <223> n equals a,t,g, or c

<400> 90						
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attaataaca	ttgaagtgtg	atggggacaac	cactgaagcc	gtctgttgaa	acctgctggg	180
actttttagc	catttctctt	aacataaaga	atgggtgttt	ttggaggggg	tgagaggaat	240
ggggaaaatgt	tgtcaaagag	tacaatgttt	tagttgagac	aggaggaata	tattttgttg	300
agatctacag	cacagcatgg	tgactgtagt	taacaatgaa	gtattgtgta	tttcaaaatt	360
gctaagacaa	taaatttcaa	atgttctcac	c			391

<210> 91  
 <211> 809  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (564)  
 <223> n equals a,t,g, or c

<400> 91						
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cattaatcaa	agacaaaagca	aaaagccagt	cagacaagag	aaccagggat	gaaaaattgg	180
gtaaaattga	attttaaaaa	atatgagctt	aattctgtgg	ctgtacccat	aagacgcaaa	240
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aaactaactt	ccttatcctt	tgtgcctccc	tgtttcagtt	tcagaaaacac	ctttcctgcc	480
catactwatc	tacacggccc	atatctgcta	cacactctgt	aaattaccct	tcctgtcata	540
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gagaaatcct	ttgtttaagt	gctcatttt				809

<210> 92  
 <211> 1571  
 <212> DNA  
 <213> Homo sapiens

<400> 92						
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gtatctcctt	tcttatctac	agcagacact	ttagcacctt	tgtctagcag	cagctccacc	180
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acagcccaat	acaaagcagt	tttattatcc	tagataatta	aaaaaagaca	caaacaaacc	360
aaccagaggg	agaagagccc	ctgcccactg	cactctttgg	ttctctgctg	tgccctgctg	420
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<220>  
 <221> SITE  
 <222> (1863)  
 <223> n equals a,t,g, or c

<400> 94  
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 ggtgttccct gtttccagga aggtgcatac tactcgctgc caagctctgg ggggtcatcac 480  
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 cctcccatct gctccccaat tcttgatctc tcccaccca tccctctccc cagtcttgga 1800  
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 ggneccccgaa ccc 1873

<210> 95  
 <211> 1276.  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1168)  
 <223> n equals a,t,g, or c

<400> 95  
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 agaaattttt accttcaagg atcagggttt ttctgtttgt ttgtttttta acacacayat 180  
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 gtgtttcacc atgttgccca ggcagggtct gtgagccaca gtgcccagcc ccgtagtgga 600  
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gtggggactg	cagggggccgc	accggtgncc	agccagggct	ccagaacgct	tcaggagccc	1200
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<210> 96  
 <211> 1351  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (240)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (415)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (729)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (766)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (806)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (807)  
 <223> n equals a,t,g, or c

<400> 96						
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ccctttcgccc	gggctggagt	gcagtgggtg	gatcttggcc	cactgcattc	kcygcttcmt	180
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agtacctttt	tgacttccca	tgttctgtgc	tttttagcagt	agggatttga	gaccttttca	1260

gagtttagatt tgtgtttttt taaggcaagt tgcattagat gtaaggtagg aaagagtaag 1320  
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<210> 97  
<211> 1046  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (483)  
<223> n equals a,t,g, or c

<400> 97  
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gattcactgt aggattcctt taaatatcaa gcatcaccag tatatgcttt gatggtatat 180  
gtatataact taaagttctt tcaaaaagcct gatacagaaa cgtgtcccca gtttggttagc 240  
aatgtggaaa acctggctag agatgatatg gagctgtccc tcagaaaagca aagccatgcc 300  
tggaaatccct aataggctgc ttagttgtga acctgtttga tttgccttaa gcctctatcc 360  
agaaacctgc ccgcttccgt ctggttaaga agccagtggg ggatattttc tttgttaaca 420  
ttagaaatgc aaacattccc ttgtcaacca agaatactca aagctacttg tattggaaat 480  
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aatagacctt aagagaagtg cagtatttat tctttgtagg cataatgtgt ttgtcactga 660  
caagcattca tattcatccc actagtcttt tattgcagtc ttttattgtc attttcagcc 720  
ttatgttgga gagctttgct ttctcatcat gtccacattg tcttaagttt tgtgagcttc 780  
tgagaaagag cttggtaaag gtttaaaggg gactttgttc caccagggag cattttattt 840  
gggcgtctca cccttttcta atgaaagctg ttgtaagcca cctctgactt ggaaattctg 900  
aaagtatgaa tattttttat atcttaattg taaaatgcca gttctccatt atttagatga 960  
atagtagaac actgcaccct ttgtgcagtg tttttgtttc tctactgcat tcctaccccc 1020  
accaaaaaaa aaaaaaaaaa actcga 1046

<210> 98  
<211> 1132  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (153)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (260)  
<223> n equals a,t,g, or c

<400> 98  
ctgaagccgg tgctgctggg ctttcgagat ggcgcgggtgc acgcagcccc acagggccgg 60  
gtkcoctggac tgctagcaag ctgggcggca ttccggatgc tctgcccacc gtggctgcgc 120  
caggcccggtg tgtcagcgct gcggcagccg ctncgctctg gtcgtgcagg tgtattgccc 180  
gctggaaggc tccccgtttc accgtctgct gcacgtgttc gcgtgcgcct gccccggctg 240  
tagcaccggc ggtcgcgc an tggaagggtgt tccgctccca gtgcctgcag gtgccagaga 300  
gagaggcgca ggacgctcag aaacagggaa acagccttgc agctgaggac tgggtggaag 360  
gtgctgatga ctggggaagt gatactgagg aggggccttc accacagttt accttgatt 420  
ttgggaatra tgccagcagt gccaaaracg tagactggac tgctcggytc caagacctcc 480  
gcctgcagga tgctgtcctg ggtgctgccc atcctgtgcc tcttgggctg ccgctcttcc 540  
tgccctacta catctgtgtt gcagatgagg atgattacag ggactttgtc aacctggatc 600  
atgccccacag ccttctgagg gactatcagc agagagaagg cattgccatg gatcagttgc 660  
tttcccaaaag ccttctctaat gatggtgatg aaaaatatga gaagaccata attaaaagtg 720  
gagatcagac gttttacaaa ttcatgaagc gaattgctgc ttgtcaggag cagattttga 780  
ggatattcctg gagtggagag ccactctttt tgacctgccc tacatcagaa gtcaccgagc 840  
tcccagcctg cagccagtgt ggaggccaaa ggatatttga gtttcagctt atgccagcac 900

tggtcagcat	gctcaagagt	gctaatttag	gtctttctgt	ggaatttga	acaattctag	960
tttacacatg	tgagaagagt	tgctggcccc	caaatcatca	gactcccatg	gaagaatttt	1020
gtattataca	agaagaccca	gatgaattat	tgtttaagta	gagcatttcc	ttttattaat	1080
ataaattaaa	acaaatgttt	acatccaaaa	aaaaaaaaaa	aaaaaaactc	ga	1132

<210> 99  
 <211> 1538  
 <212> DNA  
 <213> Homo sapiens

<400> 99						
ggcagcagag	ggaaggggaag	ccggaagggg	crcgagagca	aagcgaggac	agacagctcc	60
cagagggcga	gggggtgcgtg	tgcgctccgt	tctcacctca	ggtctccctt	cggccccgct	120
gccctccctc	gcggctgggt	gacagctggg	tccggctcgt	cgcgggctgc	ctgggggtgcg	180
aggatcgcg	accccgctct	cgcgcgctgt	gcttgccgcc	ccgccccctc	gtcccggccg	240
tcccgctcgcg	tcgcgtcccg	tccctctggg	tgctgccagc	cgggtgctga	tgcgagtcgg	300
tggcagcag	gacattttct	gactccctgg	cccctgacac	ggctgcactt	tccatcccg	360
cgcggggccg	gccgctactc	cggccccagg	atgcagaatg	tgattaatac	tgtgaaggga	420
aaggcactgg	aagtggctga	gtacctgacc	ccggctctca	aggaatcaaa	gtttaaggaa	480
acagggtgtaa	ttaccccaga	agagtttgtg	gcagctggag	atcacctagt	ccaccactgt	540
ccaacatggc	aatgggctac	aggggaagaa	ttgaaagtga	aggcatacct	accaacaggc	600
aaacaatttt	tggtaaccaa	aaatgtgccg	tgctataagc	ggtgcaaaca	gatggaatat	660
tcagatgaat	tggaagctat	cattgaagaa	gatgatgggtg	atggcggatg	ggtagataca	720
tatcacaaca	caggtattac	aggaataacg	gaagccgtta	aagagatcac	actggaaaat	780
aaggacaata	taaggcttca	agattgctca	gcactatgtg	aagaggaaga	agatgaagat	840
gaaggagaag	ctgcagatat	ggaagaatat	gaagagagtg	gattgttgga	aacagatgag	900
gctaccctag	atacaaggaa	aatagtagaa	gcttgtaaag	ccaaaactga	tgctggcggt	960
gaagatgcta	ttttgcaaac	cagaacttat	gacctttaca	tcacttatga	taaatattac	1020
cagactccac	gattatgggt	gtttggctat	gatgagcaac	ggcagccttt	aacagttgag	1080
cacatgtatg	aagacatcag	tcaggatcat	gtgaagaaaa	cagtgaccat	tgaaaatcac	1140
cctcatctgc	caccacctcc	catgtgttca	gttcacccat	gcaggcatgc	tgagggtgatg	1200
aagaaaatca	ttgagactgt	tgcaagaagg	gggggagaa	ttggagtcca	tatgtatctt	1260
cttattttct	tgaaaattgt	acaagctgtc	attccaacaa	tagaatatga	ctacacaaga	1320
cacttcacaa	tgtaatgaag	agagcataaa	atctatccta	attattgggt	ctgattttta	1380
aagaattaac	ccatagatgt	gaccattgac	catatttcac	aatatataca	gtttctctaa	1440
taagggactt	atatgtttat	gcattaaata	aaaatatgtt	ccactaccag	ccttacttgt	1500
ttaataaaaa	tcagtgcaca	gaaraaaaaa	aaaaaaaa			1538

<210> 100  
 <211> 798  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (341)  
 <223> n equals a,t,g, or c

<400> 100						
accacgcgg	tccgggacta	ttttcgtaak	aatatttttc	tgcaaaactga	tgtagttagt	60
agatgtcatt	atactaataa	aaggacatta	gctattttat	tataaaagtat	gcaccagcac	120
tttgagatt	cagtgaact	ctaaaaatgt	ctttatctag	caacataata	gaaaatacta	180
tgatagacat	ccaaccataa	acaaattaga	acaggcaaca	caaatgcctt	tttcagttta	240
gtgaaatagc	gtacagttgc	ttagttgatg	gtgacgtggt	aacatacata	tgccgatctg	300
tgagcatttc	atttggcctc	tactagcttt	catacctcaa	nttttgagtt	caggtctcag	360
agtttttctt	tcattttacac	agcaaaaacca	ccaggaaaga	gacttttaaaa	gagactatca	420
ggcatgacaa	gatactagt	aatcaaaaac	gtacttataa	aataaagcaa	acgaggccag	480
gcacgggtgg	tcaggcctgt	aatcccggca	ctttggggagg	ctgaggcggg	tgatcacga	540
gatcaggaga	tcgagaccat	cctgggtaac	atgggtgaaac	cctgtctcta	ctaaaaatcc	600
aaaaaattgg	ccaggcgtgg	tggtggggcac	ctgtagtcac	agctccgggtg	gtgtgaacc	660
gggaggcgga	gcttacagt	agcgctacag	atagcgctac	tgactcctg	cctgggcgac	720
atagcgagac	tccgtctcaa	aaaaaataat	aataaaaaaa	aaaaaaaaaa	aaaaaaaaaa	780
aaaaaaaaaa	gggcggcc					798

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<220>
<221> SITE
<222> (1265)
<223> n equals a,t,g, or c
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<220>  
 <221> SITE  
 <222> (1276)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1283)  
 <223> n equals a,t,g, or c

<400> 102  
 ggcacgagat gtaatagtgc tttctgggaa tgytctcycc gtatttgata gtgggtccctg 60  
 aaatactact tgggtatttgt aaacaaatgt ctgtgggttg ccttccaagg actttaatgt 120  
 aggcttatct ggctgaagaa ttttgtgaga aatgctcacg ttagtgtctt ttgtctttct 180  
 cttgctcttg ttagagtcta tgatttagag gatgtatgct tggctgtgga atatctcgga 240  
 gctgaagaga agaagccagg tcttagcatt ctttctatat aaatgttttc ataccttacc 300  
 ccattttcaa tatggtacat ccttcttcaa ccatacatgt tttctctcag ttttaggaat 360  
 tgtgttttct ccaaaagaaa aacttccagt cttctctctc agtgggtgaag gagcaatcac 420  
 caagtgtcca caactggaaa gaggattgat aatctaacta cttcttacac agatgtagat 480  
 ttactcttcc tgtatttatt ttaccttcac cttcacttgc aaaggtgact gatgattcct 540  
 acttctgtgc ctttggggga ttttghtaatg tggatttgtt tgtttcttgg atttcactgc 600  
 atgtaaatta agattcagca ttataattat gttaatctgt tacctgttcc tattcgtcta 660  
 ctactttct gctttcaaca ttttcttggc cttttccctt gtgggttttg cttctctctt 720  
 tctctctctt tctctctctc tctctctctc tctctctctc tctctgagta ttgttgttgt 780  
 attttggggg ttttgtgtg tgtgccctg tatttgtctc cttttgtctt gccattgtgg 840  
 tggattcaag ttgtgtcaat ttaagccaaa ctggaactac atttaccaga attcctttcc 900  
 ttgcatagct ctggtcagca tatcccacaa cagacatttt acatgagatg cggcagggtgc 960  
 aagagcatag cacagacatt gattccatgt gtgtaaggtc aatgaagggc aggatgtgct 1020  
 actgtagatt acacacatca ttgctcatct actgatacat gttactagtg tgtggcagcc 1080  
 agatgggctc atctactgat acatgttact agtgcgttac tccagatggg ctacttttcc 1140  
 ttcagcttcc ctcattttta gcctaatttn tagccagggtg gattttcagt ttcctatgng 1200  
 caccatca ctgnagtgtc tgttttggag ntggtaaacg acnaagngtt cctttgattt 1260  
 gctgntggct tacagngcc ttnaaaaaaaa aaaaaaaaaa aaa 1303

<210> 103  
 <211> 1248  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (310)  
 <223> n equals a,t,g, or c

<400> 103  
 gaattcggca cgagagcctg taataaatgt ttggctatca attatacaca tcaagttgat 60  
 atgctccagg actgggggsc atttatgctt gcaattarat ctgaggggay ktgaggagac 120  
 ccacatgggt agccagccct ctttcttcca ccagactcag cttttttgaa gcttgagag 180  
 atgaggaagc ttaattaaac ttatcggaga tctctttttc catcctagaa attggagagc 240  
 catgatcata ggtatagaga tgttgaaatc ttaggtcctt ctttcttctc ctcttatacc 300  
 atccctctn cccatgtact cacatagcca cagtcacata cacatgcaga tttyaagtca 360  
 aacaaatttg ttaaaaatag attcttagam cagccacggt ggctcacacc tgtaacctca 420  
 gtactttgca ggcggatggt ggarattact tgaggccagg agtttgagac cagcctgggc 480  
 aaatagggtak accacatctc agaaataaat aaaaagcaaa aaataaaaaat aagtagattc 540  
 ttgacttgct ttgggtctca tcagaagcca aaacaatcat ccaagtctaa gtatggccac 600  
 tggatgtctgc agtgctggtg tgagakattg ggtcagtgc caccaattct ccaccataa 660  
 tcacaaatca gaggccacac catggcttcc agcctcttaa tctgtataa aagttgatgg 720  
 ggtgtgcaat ctaaaatgat aagaaaagat tctcaattaa gcggtcttga actgggtgcag 780  
 tttcagaccc aaactcaaca accccagatc ttcttttagca atccacagag aagaaggatt 840  
 aatgttcagc tttgttaaca aatattttta atggtgttct ttcttttagca acatacatct gagggctacg 900  
 aaggtttagca ctccaaagca ggtaaatatt tggcttcttt tattttactt catggattct 960  
 tcctttcctt tccttccctg caacctcata ctctgagata agaggaccca gccaytggat 1020  
 ytcaaagcaa atgttaaaat accaytccyt ccacattcat tcagccactc aaatatttaa 1080  
 ttagtgtcta tcatatctaa ggcattatgc taggtactgt tttcaattta gtacgagtac 1140

tttttataat	acaatatattcc	cacagacagct	gtgttagagct	caaatttcac	tttacatgat	1200
gtagtaccaa	attccccaaaa	aaagaacttc	ccttttagat	tgggcagct		1248

<210> 104  
 <211> 411  
 <212> DNA  
 <213> Homo sapiens

<400> 104						
ggcacgagct	gcaccactgc	gctccaggac	agggcaagac	tccgttcaca	acaacctcta	60
cctcccgggt	tcaagtgatt	ctcctgcctc	agcctcttga	rtagcttgga	ctacaggcat	120
gtaccaccac	gactggctaa	tttttgtatt	tttagtaaag	acgggggttc	accatgttgg	180
ccaggctggt	cttgaattcc	tgacctcaag	tgatccgcct	gcctttggcc	tcccaaagtg	240
ctgggattac	aagcgtgagc	caccacgccc	ggccaggatg	ttggttttct	tattgagttg	300
taggaattcc	ttttatatcc	cagatgcgaa	ttctttttcc	aatatatgtt	ttgcaaatag	360
ttcctttcag	tctatagctg	gtctttgtat	ggcttttttt	tttttttttt	c	411

<210> 105  
 <211> 981  
 <212> DNA  
 <213> Homo sapiens

<400> 105						
tgaattggaa	ccagaataga	cctccgagct	gggaactgtg	gatccaaggc	tgccccacc	60
ccctgggtct	ggcacgagat	ctgcaactcc	cagagggggc	aggtggctct	ggagcctagc	120
ctacctgccg	agagtcagag	gtggctgcag	gggaaccatg	gcagccctcc	ttctcacact	180
catcctgggc	accctgcacc	agcagaaggc	tttacctgta	caatcaccca	tccctagccc	240
ttctgggagg	aagcatatct	tacggatggc	gaccttgagg	ctcagggagg	ttaaggtgcc	300
agcctgagat	cacacagcca	gtgagaggca	gagacagggc	ttaaactcca	gacgatggct	360
ccagagcccc	ctctcttttc	catgccctgg	gctgcctctt	tccccagtg	accttgcttt	420
ttggaaccag	atgaccaatg	tggaaagaca	tgaactgatt	caatcagagt	gtatggagaa	480
gggacttaga	gaccctggta	tttttaaagc	tccctgtctc	tagtaaaaat	acaaaaatta	540
gccaggcgta	gtggcaggcg	cctgtaatcc	cagctactcc	agaggctgag	gcaggagaat	600
tgcttgaacc	tgggaagtgg	aggttgccgt	gagccaggat	catgccactg	cactccagcc	660
tgggcaacag	agtgagactt	tgactccaaa	aaaaaaaaaa	aagaaatcag	atactaacaa	720
ctctctcctt	ctttcttttc	ttcccaattt	ttgtttaatg	tatcatttct	aaattcatgg	780
tttatattta	tatatgtcct	taatcctcac	tcacattggc	cctacaggta	gattcattgc	840
tcactgtcag	ttctcttget	gggattacac	gtgtgagcca	ctgggcccgg	cttagttttt	900
ttattttaaag	ataagggttt	tttttgtttt	gttttgtttt	tgaacacagag	tgagactttg	960
actcaaaaaa	aaaaaaaaaa	a				981

<210> 106  
 <211> 748  
 <212> DNA  
 <213> Homo sapiens

<400> 106						
gaattcggca	cgaggagccc	ttggccagct	ctgagacgct	ttgtgagacc	ccaaggtggg	60
tgttctagaa	ggaagaagct	ttggcttgct	tactggaacc	aagacaaaaa	ttccaaataa	120
aattccaaat	aaaaatgtaa	atcgagtttt	ttcctcgatt	gtcacagaga	ctctggtgaa	180
tatgttaagt	tttcagaaaag	cgattctttt	cctagcaatg	ggctgcttgc	cttgcatctc	240
tcaaggcctg	tcctgtgcct	tccatcctgc	atccttccac	aaggctctga	gtggctgtag	300
gaccctcata	tgacaggagg	aggaggctga	ccttggccaa	ggtcacatat	cccttctttt	360
atccattcga	aaggctcttg	ctgttgactg	actatgcagc	agacatagct	gggccctggg	420
gagatgtgca	aggcaaacac	acccaagaga	ttcctgcctt	cactgagcat	gcaccgcaga	480
gacacgtca	gtcacttctc	cctgagctct	cgcagcacct	cagacatgcc	tctagtttaa	540
gcctctactt	ttaaatgtaa	tcctgtgca	tggcacacca	taggtactca	aacaggggct	600
ggtggaactc	ttgagggaga	gggagtgcga	ctgattcctc	ttcctgagat	ggaagtgtgc	660
gtgcacccgt	accaatgtgc	atgcatgtgt	gtgtttgggg	gaagacatag	taaataagct	720
gagtgtttct	tgtttctccat	ggtctcga				748

<210> 107



<211> 321  
 <212> DNA  
 <213> Homo sapiens

<400> 107	ggcacgaggt	cctcaccagc	tgttccacgt	gctgtgcgtg	tgtggctctg	tagctggccg	60
	gcagtgccgt	gtcgggtgaa	gctgggagag	tcctcctttt	gcagacagaa	ttcctgccat	120
	tcctcacttt	tatgactgtc	caggagcaag	aacgtggcct	tctggagttg	aggtagaatg	180
	ggcaagaaat	cctctacatc	attctattta	ctgtcccttt	gtgttttaaa	aacagcttta	240
	ttaaaatgca	tacaccagcc	tgggcaaggt	ggcaagactc	catctctaca	aaatattttt	300
	aaaaattagc	gggggtgtggt	g				321

<210> 108  
 <211> 1477  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (37)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (53)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (556)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1460)  
 <223> n equals a,t,g, or c

<400> 108	aattcgggtca	gtagccgccc	tcctaggcgt	ctggagnaaa	ctaggcaatt	ttncgggta	60
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	gccmgcscag	gcaatactag	cccctctgga	gcacggagct	ccttccccaa	agacatgaag	180
	ctattggaga	actcgagctt	tgaagccatc	aactcacagc	tgactgtgga	gaccggagat	240
	gcccacatca	ttggcaggat	tgagagctac	tcatgtaa	tggcaggaga	cgacaaacac	300
	atgtttcaagc	agttctgcca	ggagggccag	ccccacgtgc	tggaggcayt	ttctccaccc	360
	cagacttcag	gactgagccc	cagcagactc	agcaaaagcc	aaggcgggtga	ggaggagggc	420
	cccctcagtg	acaagtgcag	ccgcaagacc	ctcttctacc	tgattgccac	gctcaatgag	480
	tccttcaggc	ctgactatga	cttcagcaca	gcccgcagcc	atgagttcag	ccgggagccc	540
	agccttagct	ggtggntgaa	tgaggtcaac	tgaggtctgt	tctcagctgt	gcgggaggac	600
	ttcaaggatc	tgaaaccaca	gctgtggaac	gcgggtggacg	aggagatctg	cctggctgaa	660
	tgtgacatct	acagctataa	cccagacttg	gactcagatc	ccttcgggga	ggatggtagc	720
	ctctggctct	tcaactactt	cttctacaac	aagcggctca	agcgaatcgt	cttcttttagc	780
	tgccgttcca	tcagtggctc	cacctacaca	ccctcagagg	caggcaacga	gctggacatg	840
	gagctggggg	aggaggaggt	ggaggaagaa	agcagaagca	ggggcagtg	ggccgaggag	900
	accagcacca	tggaggagga	cagggtccca	gtgatctgta	tttgatgagg	aggagccgag	960
	gccccagctt	catccagctt	caaccaatgc	ctggacctgt	ccacctgaga	ggccccctggg	1020
	gcctccccag	ctgctggcca	gacctggg	ctggccactg	cccaaggcca		1080
	tacctgacct	gccccttggc	tcctctctgt	ggatgcccac	tcacctctca	gactcctgct	1140
	gcccattgctg	tggccggact	tgtcagcagg	gggcctgggtg	ggaggagcga	ctgccctgcc	1200
	caaatgaact	gccacagcag	ggacagctgg	accgcagagt	ttatttttgt	atttctactg	1260
	ggcctgcaca	ctccagccca	aagggtctgt	gcggaggccc	cacgagcagg	ccccagcagt	1320
	caccgctct	ggtcttggc	cggccccggg	gcccacctgt	acccccacct	cgccatttg	1380
	gcccgtgca	ctgagtgctca	ctttgctgca	gctcgtttct	ttccaataaa	agtttctgtg	1440
	acttaaaaaa	aaaaaaaaaa	aaaaaawaaa	aaaaaaa			1477

<210> 109  
 <211> 996  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (834)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (996)  
 <223> n equals a,t,g, or c

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<400> 109
gaattcggca gaggggaatct gggctctgtg gaagaatagc acttatctgg attctggcct      60
tgtgccatga acctaaagca catccgtttg gtctgccagt aggctggtat ggcattgctgt      120
aaccacctata aatattatatt ctatttatcc tgctcagtgt gtttcctgta acaaatcggt      180
caagaaactc tgggtcccttc atgaacatat caagatcgtc catggatatg cagaaaagaa      240
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ggttgccacac acaaaagaca tgccattaca tgcgaaacct gtggaaaatc attcaaacgc      360
atatgtcact caaggtgcac tccctgcagc attctrgaga gaagcccttt agatgcgaga      420
actgtgacga aaggtttcag tacaagtacc agctacgctc ccacatgagc attcatattg      480
ggcacaacaa gttcatgtgc cagtgggtgtg gcaaggattt caacatgaag cagtacttcg      540
acgaacacat gaaaacacac actggagaga aaccctttat ctgtgaaatc tgtggcaaaa      600
gcttcaccag ccgccccaac atgaagagac accgcagaac tcacacaggc gagaagccct      660
atccatgtga tgtgtgtggc cagcgggtcc gcttctcgaa catgcttaag gccacaaagg      720
agaagtgttt tcgggtgacc agccccgtgg aatgtgccac ctgctgtcca gatcccactt      780
acaacttccc cagccacccc agttccttct gtggtgaaca cagccacaac ccnaccctc      840
caatcaatat gaatcctgta agcactcttc cctcgggcc atccccacc ccttctcaca      900
ccgcacatcc acccacaccc tcaccacca caccamcttc ccatccctcc aktccctcac      960
ctcccgcac ctccagctct ctttaagagt gagccn                                996

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<210> 110  
 <211> 416  
 <212> DNA  
 <213> Homo sapiens

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<400> 110
ggctcgaccca cgcgtccgat ttagacaagc aaactccaga taactactct aagttcacca      60
gtgtttatag taactaaagc agcaacatgc ataaaattgg gcaactgtttc atgagtttgt      120
tttctattaa aaaacacaca tacgatgatt gcaaaatgaa atgaaatttg tttgttttcc      180
tcttctgtct agcatggata tcagctgagg gtttgttggc tgtttctcat tcaaattgaa      240
tagaaccatt gtcctttggg tttcatctgc tccaaaaaaa aaaaaaaa aaaaagggcy      300
gccgctctag aggatccaag cttacgtacg cgtggcatgg gaacgtccat agctcttcta      360
wagtgtccac cyaaaattyca attycactgg gccgtcgttt taacaamgtc gtgaac          416

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<210> 111  
 <211> 1378  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1108)  
 <223> n equals a,t,g, or c

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<400> 111
tcgagttttt tttttttttt tttttttatg tttacaacag ctttattcat aattgccaaa      60
acttggaac caccaagaag tctttcaata ggtgaatgga taaactattc atctagacaa      120
tgagagtatta ttcagtgtcta aaaataaatg cactattaag ccatgaaatg acatggagga      180
accttaattg catattatta agtgaaagaa gccagtctga aaaggctaca tactatatga      240
ttccaatatg acattctaga aaaggaagaa ctatggcgac agtaaaaagt ggttgccaaa      300

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<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (34)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (46)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (100)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (378)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (388)  
<223> n equals a,t,g, or c

<400> 115							
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cctaaaagag	acacagatag	cctcctcttt	taccctggcn	ttaaggaaaa	gcccatttta		120
ttaacaaaag	tattagacac	gactgccata	agaaatttgc	tgtgtgagaa	taaagaacaa		180
gggagtagga	gggtgggaca	gagaaggggtg	agaagttggc	cttccgtgag	ggccacctgt		240
cagttgtcct	ttgtgccttg	tgacatcaaa	actgaaatgt	ttgtattact	gttgtcccat		300
gacttttttt	ttctgtgtca	gacatacaaa	ttgaatttgg	ttgtaatgtt	ttaaactgtt		360
taaagaattc	ttacctanaa	aaaaaaanga	ggggggggccc	ggtacc			406

<210> 116  
<211> 2076  
<212> DNA  
<213> Homo sapiens

<400> 116							
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ctcatctcaa	cccactttcc	gcggggagcg	gcgccaagct	gggccttccct	cggatcaggc		180
gtccccctgaa	gtcggcacgc	ccctctgcgt	cccccttcgg	tcccgttagg	accccgctccg		240
ggctgcccgc	gcctcgctgc	tatggcgccc	accatccaga	cccaggccca	gcgggaggat		300
ggccacaggc	ccaattccca	ccggactctg	cctgagagggt	ctggagtggt	ctgccgagtc		360
aagtactgca	atagcctccc	tgatatcccc	ttcgacccca	agttcatcac	ctaccccttc		420
gaccagaaca	ggttcgtcca	gtacaaaagcc	acttccttgg	agaaacagca	caaacatgac		480
ctcctgactg	agccagacct	gggggtcacc	atcgatctca	tcaatcctga	cacctaccgc		540
atcgacccca	atgttcttct	agatccagct	gatgagaaac	ttttggaaga	ggagattcag		600
gcccccacca	gctccaagag	atcccagcag	cacgcgaagg	tggtgccatg	gatgcgaaag		660
acagagtaca	tctccactga	gttcaaccgt	tatggcatct	ccaatgagaa	gcctgaggtc		720
aagattgggg	tttctgtgaa	gcagcagttt	accgaggaag	aaatatacaa	agacagggat		780
agccagatca	cagccattga	gaagactttt	gaggatgccc	agaaatcaat	ctcacagcat		840
tacagcaaac	cccagagtcac	accgggtggag	gtcatgcctg	tcttcccaga	ctttaagatg		900
tggatcaatc	catgtgctca	ggtgatcttt	gactcagacc	cagcccccaa	ggacacgagt		960
ggtgcagctg	cgttggagat	gatgtctcag	gccatgatta	ggggcatgat	ggatgaggaa		1020
gggaaccagt	ttgtggccta	tttcctgcct	gtagaagaga	cgttgaagaa	acgaaagcgg		1080
gaccaggagg	aggagatgga	ctatgcacca	gatgatgtgt	atgactacaa	aattgctcgg		1140
gagtacaact	ggaacgtgaa	gaacaaagct	agcaagggct	atgaggaaaa	ctacttcttc		1200
atcttccgag	agggtgacgg	ggtttactac	aatgagttgg	aaaccagggt	ccgccttagt		1260
aagcgccggg	ccaaggctgg	ggttcagtca	ggcaccaacg	ccctgcttgt	ggtcaaacat		1320

cgggacatga	atgagaagga	actggaagct	caggaggcac	ggaaggccca	gctagaaaac	1380
cacgaaccgg	aggaggaaga	ggaagaggag	atggagacag	aagagaaaga	agctgggggc	1440
tcagatgagg	agcaggagaa	gggcagcagc	agtkagaagg	agggcagtga	agatgagcac	1500
tcgggcagcg	agagtgaacg	ggaggaaggt	gacaggggacg	aggccagtga	caagagtggc	1560
agtgggtgagg	acgagagcag	cgaggatgag	gcccgggctg	cccgtagaca	agaggagatc	1620
tttggcagtg	atgctgattc	tgaggacgat	gccgactctg	atgatgagga	cagaggacag	1680
gcccagggtg	gcagtgacaa	tgattcagac	agcggcagca	atgggggtgg	ccagcggagc	1740
cggagccaca	gccgcagcgc	cagtcccttc	cccagtggca	gcgagcactc	ggcccaggag	1800
gatggcagtg	aagctgcagc	ttctgattcc	agtgaagctg	atagtgcacg	tgactgagtc	1860
ccagggcatt	cagggctggg	tcagacacca	ttattgtgag	cagcaaagca	cttttctagt	1920
ggtctgtttg	tgagcctttc	acttgtttgt	tccccacccc	caaacccttg	ctgttaataa	1980
agtcaacttc	tytttaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	2040
aaaaaaaaaa	aaagggcggc	cgctctagag	atccaa			2076

<210> 117  
 <211> 503  
 <212> DNA  
 <213> Homo sapiens

<400> 117						
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aaagacgata	atatagatca	gaaactcata	tcaacataac	aaaaggagga	acatcaagaa	120
tgaatatgta	aaggtaaaat	acatttttta	tttgtcttat	tcctaactga	tctaacaata	180
acttttttca	aaatagtaat	aacaactatg	cattcaatta	gatataaatg	tatattatit	240
tgtatgttta	tgacacaagt	aaatgaatta	ctagcaataa	tataagagat	aagagaaaat	300
tttgttatta	taggggtattc	atgccattag	tgaactagta	tagcatatit	gaaagtagtc	360
ttggattcct	tgtaatgcat	attgcaaatt	atagggcaac	cactaaaaag	attaaaaaaa	420
aaaactcgag	ggggggcgcg	tacccaattc	gccctatagt	gagtcgtatt	acaattcact	480
ggcgcgtcgt	ttaccacgtc	gtg				503

<210> 118  
 <211> 497  
 <212> DNA  
 <213> Homo sapiens

<400> 118						
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cctctgcccc	tcgggggact	ggacacacat	cctgccagag	gcgctacgaa	gctttgcccc	120
gatgaagcca	ggtgggctcc	gcgttcactc	ccactctccc	gaaggggtgct	ggcctcccca	180
gggtttgcct	tcttacggat	ttagacgagg	ttcgaggctc	acctatcagg	gcagctctca	240
ggattgtcat	tttcctcttt	gcctgtgggt	ttaacttttg	tattttttta	atcacaagtt	300
tgatacaaaa	tgttttttatc	gtactctttg	gagatgcccc	ttctactttt	gaatttagct	360
tttactaatt	cgcactctgga	agctcagcaa	gtgcacaagc	cttacttttg	ttaccgtgga	420
aaccactgcc	acccctcccc	gatgtggtgc	gctcaataaa	aatgctggaa	ttcaaaaaaa	480
aaaaaaaaaa	aaaaaaa					497

<210> 119  
 <211> 1106  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (374)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (405)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE

<222> (864)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (988)  
 <223> n equals a,t,g, or c

<400> 119	ggcagcagct	cgtgcgaatt	cggcagcagct	caacctctca	aatacctgga	atgacaggca	60
	catgccacca	ctccttggtt	agttttttta	ttttttcatt	ttttctagcg	attgggtctc	120
	cctttgtcgc	ccagggttgg	cttgagctcc	tgggctcaaa	tgatcctctt	gcctctgcct	180
	cccaaagtgt	taggatcaca	ggcatgagct	actgtgcctg	gcctaaatca	tattcatatc	240
	actaaccag	tattcctggg	yttaaactata	aatatcccg	gaaaaartct	ttgtttgctg	300
	caaaactgta	taaagctgga	atcaaattccc	agccctgccc	cttactaggt	tgatctggar	360
	aagtttttaa	cctntttgca	acttcaaggt	ccaccccgag	tcctnatcta	taagataggg	420
	aggacaggtt	agctaaaagg	aacaaatgga	aatacctagt	aaagtaactg	ataaatatgc	480
	caatgaactg	tatttctggg	aataccttta	ctgagaatta	gtctgcaaga	ctgattaata	540
	tccaatgtga	tgggttaatga	agaatgaagc	attctagcaa	tctgacatgg	gccccctgtg	600
	taaaagggat	cgcacacaca	gagaaaaaag	aagtaatat	gggagagaa	agggctttgc	660
	ttaaacagaa	cagtatgggc	caccagcagc	agtgagagac	aggtaaggcc	tctgtgagcc	720
	ttcagtcggc	agtgggtcat	aagaaaatag	aaatagtgat	caaaccagga	agagagaatg	780
	aaaccattc	tcaactcttt	aaaagcttct	gtttggagta	agcccaatgg	ggagccatca	840
	gtgtctctga	catccatatc	atcntattat	acttccttag	ctcaaaccac	actcaagaaa	900
	gcacaggaaa	tcagaaccac	agtgggaagat	ggatgagaag	ctggaagagg	aagtgttcag	960
	caatggcaca	ccattctttg	ccttatnta	tgtccctgag	cttgttcagc	aacagcagca	1020
	atctttctta	aaccaaaggg	atccatgctt	ggatcttctt	cacaggggac	aagcctgcaa	1080
	gccagatacc	atttccctgc	taacat				1106

<210> 120  
 <211> 625  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (6)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (14)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (32)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (88)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (119)  
 <223> n equals a,t,g, or c

<400> 120

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aacttaaaaag	ggaacccaaa	aagctggag	ctccccaacc	gcgttggccg	gcccgtcnt	120
agaaacttag	tggaatcccc	cccgggctgc	caggaaatcc	ggccacgaga	tttttagtag	180
agacatggtt	tcatcatggt	ggccaggatg	gtctccatct	cttgacctcg	taatcctagc	240
actttgggag	gccaaggcgg	gaggatcggt	tgagcttagg	agttcaaggc	cacctagcca	300
acataatgag	agcactttgg	aagccccgaag	cgggtggatc	acgaggtcag	gagatagaga	360
ccatcctggs	taacatggtg	aaactccatc	tctactaaaa	atacaaaaaa	aaattagcca	420
ggcgcggttg	cgggcgcctg	ttgtctcagy	tactcgagag	gctgaggcag	gagaatggcg	480
tgaacccggg	aggcggagct	tgcagtgagc	caagatagcg	ccactgcagt	ccggcctggg	540
tgaaaaagcg	agactgtctt	aaaaaaaaaa	aaaaaaaaact	cgaggggggg	cccgggtaccc	600
aattcgccct	atagtgcgtc	gtatt				625

<210> 121  
 <211> 666  
 <212> DNA  
 <213> Homo sapiens

<400> 121						60
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gaatgggaaa	ttgccagtgg	tgaatggtag	ataggtgaat	ggcttcaaga	aagtgtgctc	240
tgtgcttttg	caggagcagg	gctaagctga	gacatgggtcc	tagtggccca	tccatgggct	300
argcaggaat	gggtgggaag	agggcagggg	aggcttcccc	ggggcctgca	gattgtgttc	360
ttaagrgttt	tttccttcag	tccttagaag	ctcagctgaa	aggaatgact	gcggtccggat	420
gtggtgtgtc	atgcctgtag	tcccagcact	tagggaggcc	gaggtgggca	gatcacctga	480
ggtcaggagt	ttgagaccag	cctggccgaa	ctggtggaac	cccaactcta	ctaaaaatac	540
aaaaattagc	tgagcatggt	ggctggtgcc	tgtggtccca	gctgcttggg	aggctgagcc	600
agaggaattg	cttgaaccca	ggargtggar	gttgcagtga	gcccagatca	agatcacacc	660
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aaaaac						

<210> 122  
 <211> 857  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (800)  
 <223> n equals a,t,g, or c

<400> 122						60
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gtgttttacc	ttctggagtt	gcagaatgaa	tcaccacccc	gaggggaagca	cggttgtttt	180
tttttytctt	ttcttttttt	ttgagacagt	cttgctctgt	tgcccagggt	ggagtgcggt	240
gggtgcaatct	cggctcgcgtg	caacctctgc	ttcctgggtc	aagcggttct	ccttcctcag	300
cctcctgagt	agctgggagt	acgggtgtgc	gccaccacgc	ctggctaatt	tttgtatttt	360
tagtagagat	gggttttcac	catgttggtc	aggggtgtct	cgaatgcctg	accttgtggg	420
ccaccgcgt	cggcctccca	aagtgcgtgg	attgcagggtg	tgccgcgcgc	cgcccggcca	480
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gacagggatc	ccaagttgca	cgtaaatata	cggagccctt	tytgagatgc	aggttctaca	600
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gtgcctgagc	acagctgtga	gaagggggta	tctggatcct	tggggtgaca	ggatggggaga	720
gggtggagcat	ggcctgcagg	ctgccccag	aggccttagg	tctctgctga	ctagctagaa	780
ttctgaaaac	tgtgttatgt	aagacgttta	gcattctcag	tgccaaataa	aggtgacccc	840
cacaacgaca	taaaaaaaan	aaaaaaaaact	ggaggggggg	cccgggtaccc	aatcgccgga	857
tatgatcgta	aacaatc					

<210> 123  
 <211> 658  
 <212> DNA  
 <213> Homo sapiens

<400> 123  
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gggccccttg cttcagctat cctccttgcc gcaatttcct gggcaaagat gcttctctwa 180  
ccagatgttg ctgattwccc ctgtgggggya aaaagaaaac ccakgttact gatgctcatc 240  
atcccacttt cctctcaacc tctttatata aaggcctctg gaacaaagag ataaaagggg 300  
attgctcaat ttccagggat cacaacccta gttctcagaa aaaggagarg tctataagag 360  
taaagggtctt agactctgac agacttgggt tgaagttctg gctcttctac ctattagatg 420  
tgtggtgttg gacaagttat ttawcwcttt ggggtctcag tttcctcata tgaaaaatgg 480  
gaataaggac tcctcatccc caaggatatca tcatgatacc tgccttatat gtttgttatg 540  
aagattaaaa gaagtaatgg gtatgaagtg cttagtatga tcctgctttg taaattaaat 600  
tgcttatcat cattaaaact acctgcctgg agaaaaaaaa aaaaaaaaaa aactcgag 658

<210> 124  
<211> 709  
<212> DNA  
<213> Homo sapiens

<400> 124  
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gtcccccagg caccgtctga aagtggggga ctgggatggg agaataagat tttatgcatt 180  
ttttgttttt tgttttgttt tgagacagag tctcactctg tcaccaggc tggagtacag 240  
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taatcctagc actttgggag gccagaagg gcggatcacc tgaggtcagg agttcgagac 480  
cagcctggcc agcatggtga aatgccgtct ctactaaaaa tacagaaatt agctgggcat 540  
ggtgctgtgc acctgtagtc ccaggctactc aggagactga ggcaggaaaa tcgcttgaac 600  
ctgggaggcg gaggtttcag tgagctgaga ttgcgccatt gcactccagc ctaggtacca 660  
aggggtgaaac tccatctcaa aaaaagaaaa aaaaaaaaaa aaaactcga 709

<210> 125  
<211> 1572  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (334)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (475)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (1146)  
<223> n equals a,t,g, or c

<400> 125  
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gtaatgcctt ataraagaga ttccaagctt ttcaagactt tgggtgraaga ctgggttggg 180  
ggaatatgaa atgggtgccac tttctcttga ttgtgttcct atctccattc attttctgtc 240  
tttttcaggg ttgcttcttt tttcccatct ctaaaatgaga gttcttcccg tctctaaatg 300  
agaattctkc ccaagctctg gtcagttcct ttttctctct cctctctttt gctacaatgg 360  
gtaaaataagt ttagcaagac ttagcacacg ttgtcaatat acaaaaaaat cagcaagaat 420  
tctatatctt aataatgaaa aattggatac gaaaagttaa aatagagcag tttanaatat 480  
caccaaggag aaggaaatac tgaaatataa atctaataaa atttatgcaa gatctctatg 540  
ctgaaaagta cgaaagactc ataaaagtta tcagtgaagg cacaaataag tggaaagata 600  
tattgtgttc atggactgga agatgcaata tatttaagat gtyagttmaa aaagatctac 660



ggatkcaatg	caatctcaat	taaaattcca	taagaatfff	ttatagatat	ccatargcta	720
rtctcaaatt	ttacatgaaa	agggcaagag	cccagtatag	ccaaaataac	tttgaaataa	780
gaataaagtt	agaggactta	cattgcctaa	ttttaataca	tactatgaat	cttaactata	840
atataaccta	actataacaa	tcaaggcagg	gtaggactgg	agaaaagatg	catagataga	900
taaattgagac	agagcagaaa	gttcagaaat	aggcgtgcag	aaatatgsc	aattgatttt	960
tgacaatagt	gtgaaggaaa	ttcagtggag	gaagaacaaa	tttttataat	aaattgtggt	1020
ggaaaaatfff	aacgtttgca	tatatatgta	tggaacttca	atctatattc	tttatgtgaa	1080
aaattcaaaa	tgaattataa	gtctaattfff	aaaatatgaa	actataaaga	ttttaaataa	1140
aacatnagag	aaaaaatatt	ttatgcccct	aggttaggca	aagagatcct	agataagaac	1200
aacacaccaa	aactatgata	tataraaaag	raaactgggc	caggcacagt	ggctcatgcc	1260
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gatcacccgg	ccaacatggc	gaaaccccgt	ctctatgaaa	aatgcaaaaa	ttwgccaggc	1380
gtggtggtgg	gctcctgtaa	tcccagctac	tcgagaggcc	gaggaaggac	aatcgcttga	1440
atccaggagg	cagaggttgc	agtgagcaga	gatcgtgcc	ttgcactcca	gcctgggcaa	1500
cagagccaga	ctccatctca	aaaaaaaaaa	aaaaaaaaaa	actcgagggg	gggcccggta	1560
cccaattcgc	cg					1572

&lt;210&gt; 126

&lt;211&gt; 376

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 126

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tagcagatga	tagtgaagct	gctaccagag	gctggaaagg	tggcaattca	tgttatgcag	120
catcaacaga	tgcaataacc	tggaagggaag	atcttattat	acctcctgag	cctgtggctc	180
taagggaaat	ggttggaaag	agagtagggg	attggaatgt	gtttgcagtt	attgctaaat	240
ttggctagca	ttataataag	tggatgagtt	caagagaaaa	ctgaccagct	tatgaaaata	300
aagaaaagg	aatagagccc	agcaatatag	ggttttgaaa	tgttacaaaa	attaacatct	360
tctacgcccc	aagggg					376

&lt;210&gt; 127

&lt;211&gt; 920

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 127

ccccgggct	gcaggaattc	ggcagcagct	ggagtccatg	cccctaggat	ggggtgaggg	60
agtatcactc	tgtgggggtt	cacagcacc	tggatccctg	cttccagccc	ctgccaaggt	120
aaacagtgct	gcctgcctcc	tgtggggaat	gcaggatggg	gcaatgccct	ggcagcaggg	180
tcttgctca	gctgatgcaa	ctgtggctgc	tcctgtgtgc	acagatcatg	tgcttggaaag	240
ccttccctga	gcagggcagt	gtcagaaaag	ggaagagtgg	tgtgagcagc	ttccccgggg	300
aaagcctggc	tgagcaactg	accttgagca	agcactgcag	atggcccttg	ttcctgccc	360
gctcctccag	ctgggagctc	tcagcccctg	gtaaatctctg	gcagtgaaag	acacattagc	420
acctccccct	acaatgaggc	acctatctag	acaacttgcc	tgtccgggct	taacctgcgt	480
ggcaggggaag	gacgcctgcc	cagccttagc	ctctacgcaa	tggtggaggc	agggagggag	540
agaaccacac	agctccccct	atttcccagc	agcccccatg	gagcctagtc	aacaggggtg	600
ggtcacaggc	taaattgagca	aagatgtgag	ctaataact	ggtaggtgtc	atgggggctt	660
tcagagctgg	gtaaggagg	aaagagatgg	agatactgg	tccccactcc	ttaacgtgcc	720
acctgccttc	cctgtccttt	acctccccct	attctgtctg	acctgaggaa	aatgcaaggg	780
aggctaggcc	tagtggctca	tgctgtctat	cccaacactt	tgggagactg	aggtgggaga	840
atcacttgag	cctaggagtt	tgagaccagc	ctagggaaca	tagtgagact	ttcgtctcta	900
caaaaaaaaa	aaaaaaaaaa					920

&lt;210&gt; 128

&lt;211&gt; 798

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (331)

&lt;223&gt; n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (752)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (795)  
 <223> n equals a,t,g, or c

<400> 128  
 aattcggcac gaggttagtc tggcaaggaa agcagcaaga gaggagtgtc aggcaggtat 60  
 ctggacctga caccacgtgg gcacctgctt atatgtggaa ttcccctcca gatcatctct 120  
 gcttcctaaa tgtctccaca gctttcttgg ccatacaagg caattcccct cattccagaa 180  
 aagcctagt cttcaggaata tgcaatggaa tgaaaagata taactcactg caaagaactc 240  
 agctggtgct tcttgccctg cgcaraktaa ctgtttcagc ctcaagcagc tgcagcttat 300  
 cctcttgata ccctggtgca tccaagagcc nacaggaatt gaggcctgag ataacgatag 360  
 cgttgaactc ttcagcgaca tttcctggaa cttcttgaga tgaagagaaa acaagaaaac 420  
 taactctgag ctatagcact tggccagatg ttatttatca gccctgggga tttacttaat 480  
 gtctagtctg taatcctggt ttagtggctc gtgtgaaaga agtcctcttc atgcaccaag 540  
 gatttcaatc aggctaata ctagaaaatg acaaaaatcc tcaagctagg attcctccaa 600  
 gamccagtgc aaatatctcc tccaagcaaa tgtgamaacc ccactcccca ccatccctgg 660  
 cccatcttgc aaaaccctta acagctttgg aaagttgccc accctggcct gaatggccac 720  
 cctttataac acttgccac tttgcacact tngttttaat tcccacccta tcttagaatt 780  
 aataaagctc ccttnagg 798

<210> 129  
 <211> 614  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (612)  
 <223> n equals a,t,g, or c

<400> 129  
 agggcgcggc cggggttccc gttccccgcg gagccatgag gtacaacgag aaggagctgc 60  
 aggctctgtc cgggcagccg gccgagatgg cggccgagct gggcatgagg ggccccaaga 120  
 agggcagakcga .cgaggccgag ccgctcgag ccctgctgct ggagcgctgc agagtcgtcc 180  
 gggaagagcc cggcaccttc tccatcagct tcattgagga ccctgagagg aagtatcact 240  
 ttgagtgcag cagcgaggag cagtgtcagg agtggatgga ggctctgctg cgggccagct 300  
 acgagttcat gcgagagaagc ctcatcttct acaggaacga aatccggaag gtgacgggca 360  
 aggacccctt ggaacagttc ggcataatcc aggaggccag gttccagctg agtggcttgc 420  
 aggcgtgagc gcagggcacg gtggtcagcg tgcagcggga cgggactggc cctgcccagc 480  
 catgaatcgc ttggccatgc ctggatctgt tttgttttgg tttttgggtt ttgggtcagg 540  
 gtttctactgt gttgcccagg ctagagtgcg gtggtgccac agctcactgt gaccttgacc 600  
 ttctggactc antt 614

<210> 130  
 <211> 994  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (292)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (381)  
 <223> n equals a,t,g, or c

<400> 130  
 gccggagcag aggccgcgcg gcagtgcctg catgtgggtg ggccggtggta aggaaggcgg 60  
 tggatgagga tgcagggagc agatgggctg cgttgcaggc tggggcccta tggccctcaa 120  
 taggttttgt ggtcaacatg ctttgtggag ttacaacaag caatgggtggc cctaacacat 180  
 atattcattt ataggtccat aaatctgcat tcatagagat aaatgagtaa tccccagggt 240  
 gaaggagaac tggagagac actggagcca ggtccaccct tggccagggt tnaccttgac 300  
 tcggcgatcat cactaggcac tgggtttttt ctctctcctt cttccctgac caagaaatac 360  
 aacaaattcg ttatgatata nacttgtcat gatccgaat tgaagagcaa ccatatatatt 420  
 atttggcaag ataaatacac acattcttta cataagatta gtagccacca gtttctaaaa 480  
 gcataatatt tcatttatatt gccaaaacaa aatacatgcc cacatgttat agatgggaaa 540  
 gatgaggccc agagctcggg tgcattggctg aggtcaccca attagtggat ggtggtgctg 600  
 gcacttctgt ctgggctgct tcaccttgtc acacactctc cactccatgc aggccgcacc 660  
 tctctggggc ctaggagggt ttatcaccca gcttagtata actagtaccc agcacactca 720  
 ctctgtgaaa gacactgcac cgtgatctgt aggggtctaaa gctaggggtc catgtcacat 780  
 acagaatggc acttttcaca gaaagagagg acagatgctg catggctggt ctcatgttct 840  
 attctgaacc cccacactcc ggctgtagta ccaaatggte atgagcattg atggagcaca 900  
 cagtgtaccc tgagttctaa agacgcagga ctgtgtctga gctgccataa cagaatacca 960  
 tatcaggtag ctgacaaaaa aaaaaaaaaa taaa 994

<210> 131  
 <211> 750  
 <212> DNA  
 <213> Homo sapiens

<400> 131  
 tcagagtgtg tgcttttacag aagtgaaaaa agtattgaca tttctaagcc cagaactatt 60  
 ttttaacaag ctagaaaata taggaaaaaa aaaaaacggg tagaacatgt ttctcaagag 120  
 aatgcagtgt agctagaatg tacactatatt ttttccagc atgtatttgg gtaaaaatag 180  
 tgcactgaaa tttcaggcca aatcctaatt cagaaataat cccaaatatg gagatttata 240  
 agctaggcaa tttttattta tttgctaatt tagattccct taagagctca aatgttctac 300  
 ttttactctt tggtttctcc ttgaaaagac ttacctgtaa ggtctcagca gcgtaaaact 360  
 ccaagctgca aaatcgtctg aattcagcat ttgccataat ctcccttggc catcaactca 420  
 ggttggtttg gaattgactt gccactgtac ctgtttggta attawaawtc acaattaaat 480  
 ggcaagtacaa ataaaycagc atgtctgcag gcttggagcc tccactctct gtgttatctt 540  
 ctttttatatt gaggatctga aagaaaatta gaaagaaagg tttgagtatc taaagtcttc 600  
 cattcaaagc tttacctccc ttagtttttg gacttctttt caatctgttt tggatctttc 660  
 tttcaaagag aaattaagca tgtaccattg tcagcctgtg tgattttacac tgaggagtag 720  
 agatgtgtgt gattccctcg tgccgaattc 750

<210> 132  
 <211> 537  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (511)  
 <223> n equals a,t,g, or c

<400> 132  
 agctgaaagg tgggggaagg gaacgtagac ctagagaggg gaattcttac agaaatcctc 60  
 tttttttggt ccttcttatt tttcagtctc cggcagcctc ttggtcatga aagccctcag 120  
 attgtcggct tccgccctct tctgccttct cgtgatcaac gggttagggg cagcaccccc 180  
 tggtcgccct gagggcgagc tctctctctc agctctgagc ataaagagcc ggttagccggg 240  
 gacgcagtgc cggggccaaa ggatggcagc gcccagagg tccgaggcgc tcggaattcc 300  
 gagccgcagg acgagggaga gcttttccag ggctgtgagc cccgggcgct ggccgcgggt 360  
 ctgctgcagg cactcgaccg tcccgcctca ccccgccac caagcggctc ccagcagggg 420  
 ccggaggaag aagcagctga agctctgctg accgagaccg tgcgcagcca gaccacagc 480  
 ctcccggcgc cggagagccc ggagcccgcg ngttccgcct cgcctcaga actccgg 537

<210> 133  
 <211> 701

<212> DNA  
<213> Homo sapiens

<400> 133  
aattcggcac gagatgagaa ccactgcctt gtgacctcca gtagaatgag gccccagtg 60  
tgactgcact ggaagagtc aggagcttgt taaaagtgc gatagactga ttccacccca 120  
gaatggacac cgagaaatct tggatcccaa gagtttggtt ggctttatca tgcccccttag 180  
tcattttctga gtgggttcctc atactctgca tccatgtgat gagaggcaaa tttcctcatg 240  
atctgctttg ctctctcatc aagctactat gccccacat tgctggctct gcttatgggt 300  
gctgcaatgt aggcagcgt gtttcttggt cttaccactt ttaactatct taaaatagaa 360  
cctgactctg attctccatt aagaagtggg aactggctgg gtgtcgtggc tcatgtctgt 420  
aatcccgga ctttggcctc ctatctgagg ctaaagcagg gggatcacta gaggccagga 480  
gtttgagact agcctgggca acatagttag accctgtctc tatcaaaaat ttaaaaagtt 540  
agctgggctg ggtggtgcac acctgtctc tgagctctca gctacttggg aggctggggc 600  
aggaggaccg cttgagctgt gatcatgcca ctgcagtcca gcttgagtga cagcacaaga 660  
ccctgtcaca aaaaaaaaaa aaaaaaaaaa aaaaaactcg a 701

<210> 134  
<211> 866  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (20)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (375)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (847)  
<223> n equals a,t,g, or c

<400> 134  
cgaattgggt gccgggccc cctcgagtt tttttttttt ttttttaaat gaacagagat 60  
ggtgagttct ttatttacia ttattgtcta gataaaaaaa ttcataaaaa cagatgaatg 120  
gtcataaatt atttaccacc taatggagtg aactgcaaaa cgtaccccat gctgctagat 180  
ataggacgca gagtgcagc tttatgtact acagtgagtt ttgacaaacc aaccatttcg 240  
tgtgtgtgtg tgtgtatgtg tgcaagtgtg agagtgagg ggtgcatgtg tgcaagcatc 300  
cttcattcct gacaagagaa gaccaacgct aatgttgggc attcttccat cgctccctgt 360  
tccctaagcc agggntccac tgaggaaccc ctctggctc craatgaaca tgggagcatg 420  
ggtgtgcaaa cacagctatc ctgatgtcat ggaacgaggt cacggacaca tgactgatca 480  
aagaagtggg gagatggaaa actgtgagaa aggaaactcc aaaaaacacc atgttccaag 540  
gctgccccat gttttacacg tgcagatctt tcttctcttg taggagagca gtgggctggc 600  
tttgggtggcg tttgtactgg aatccaataa gcacatctga gggctgggtc cccctttggt 660  
tatgcagttc ctctcctgga tacattcaga gatacttctt caygacattc aggtgatgcg 720  
ctcttgaagg tctctcttcc aggaggattt tgccagggtg gatgggctga ctttgaaccc 780  
caaaccctca agtttttcca ccgccatcca gatgtaggcc ctcccagttg actwtggtat 840  
tggggcnega tgggtctaaga ttgttt 866

<210> 135  
<211> 674  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (504)  
<223> n equals a,t,g, or c

<400> 135  
gaattcggca cgagggcact cagagcccaa tgaggaagaa agacacatga ctgggtggca 60  
aagccctatt gtgaggggca cggaggggaag gggcgggagg acccgggtc ggctgctggg 120  
tggtcctctg gtacagagac ctaaggggtg ggaaggaggc cctcagggag gagcagaggc 180  
tctgtaccga caggtgggct ggccccctcat ccacccatgt cctctcctgg agcctcagtc 240  
tgtccatctg tcaaattgggc agagggacag caccatctca tggagctgtc gtcggggctg 300  
caggctgtga atctgaaggc ttggcacatg ggaggctctc acgaggatga sattcttcgc 360  
tgtgtttgtc agtttttccca gcagagggaa gcgtgcagar gcgcagcaga gcctggtgtg 420  
ctggaggaaac agacgtgttg tcgggggggct ggaggcacgg gctgtgaagt gaggtagggg 480  
ttgaggggtca ggtttttgctg gganagcctt gacttctgtc tcacagcggg aaaccagagt 540  
ccttcaagca gggagtgact ggagtcctcaa tttggtttt caattatcag ggaggagggt 600  
gagctytagg gggttgccagg gagatggggg tytaccgtgg tgggtgcagg gcttgctgga 660  
actgttytgg aggt 674

<210> 136  
<211> 509  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (43)  
<223> n equals a,t,g, or c

<400> 136  
atgtgagttt agctcaactc aattaggcca cccaagggt ttnacacttt atgcttccgg 60  
ctcgtatggt gtgtggaaat tgtgaacgga taacaatttc acacaggaaa cagctatgac 120  
catgattacg ccaagctcga aattaaccct cactaaaggg aacaaaagct ggagctccac 180  
cgcggtggcg gccgctctag aactagtgga tccccgggc tgcaggaatt cggcacgagt 240  
caccacgtgc tgagtgtgtg gcatggcgct gtgtgtcttc aatgaacagc cggcgaatgc 300  
aggaagaagg cgaggaacac tgaystwcac ggtggggcga gaaggagcac ccaaattggg 360  
atgtgtcacc tgttgttcca tgtcgggtcta ctggtttctc tgtttccatc tcaggctgca 420  
ggcttcgtgt ggatgaggat ggcacctttc ctgttcaact acagatactc agtgcctagc 480  
acagtgcctg ggacacagga ggtgctcga 509

<210> 137  
<211> 437  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (414)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (434)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (435)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (436)  
<223> n equals a,t,g, or c

<400> 137  
gaattcggca cgaggcagga ggtaattagg aggtgttggg taccagggag ggaggctgga 60  
gggtgtccagg gttatggccc tttggagggt gggcaggtaa gagaggaggg 120  
aaggaggggag gagaactcaa tggcttgggt gcgaaccact tgtggaggga tggggagggg 180

cagattttgag	gacagggctgg	ggactggggca	ttcttgtttt	ggatgtggct	ggcgggggct	240
gctcttggct	ccccggcatg	aaccagtctg	tggctctggc	cagctcctcc	caccctctca	300
tgtactgtag	ccttgtcctc	cagccagacc	cttgccccgg	cttttcaggc	atcccagctc	360
agctttttac	gggatgggct	ggagctgttc	tcagcacagg	tctcgggcct	cccnagggcc	420
tgctggagca	aacnnnc					437

<210> 138  
 <211> 596  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (297)  
 <223> n equals a,t,g, or c

<400> 138						
tggaggtgga	gtcctggaca	ctttcggctc	tggcagctgt	gtcttgatct	gagccccaag	60
catgaactgg	aggctctgca	gcccttggga	gatgggggct	cagggaggac	cccctgaaga	120
accctctctc	tatgtggctt	tgggtggatt	ccacggctgg	tgctcaggaa	gcccttatca	180
agaagaagcg	ccccctgtg	aaggaggagg	acctgaaggg	ggcccgagga	aacctgacca	240
agaaccagga	aatcaagtcc	aagacctacc	agggtcatgcg	agagtgtgag	caagctngct	300
cggccgcccc	gtcgggtgttc	agccgcaccc	gcacaggtag	cgagactgtc	tttgagaagc	360
ccaaagccgg	accacccaag	agtgtcttcg	gctgagaagt	gtgcgccact	ccccttgctg	420
cccgaatgct	cggaaacagg	agccttacct	aggaactctt	ttttatgcca	gaacgcttcc	480
tctcccctgc	tgtctctggg	gctgccaccc	tccccacag	tccaggccct	tcagccaagg	540
ctctgcacca	gcaccttgga	agcaccaata	aagaggatgc	ccacgtggcc	ccagca	596

<210> 139  
 <211> 407  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (352)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (376)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (378)  
 <223> n equals a,t,g, or c

<400> 139						
ctttctgggt	ttagggaagt	ggtggacaag	gcaggagaga	accacattca	tcttctcctc	60
ttgtgtttgt	cttctgtctt	tcaataacgt	ccatgaactg	tgaggttagt	gtcttggctg	120
agagataagt	awggctkggc	atkgattctt	ytgtkgtwac	ctcaagctgt	tttctagtcc	180
ccaagaacag	caytytcagt	gggtgtggaa	gtggggcgga	catgaagcaa	tggttttaca	240
ttgcattgcc	tggctacags	ttggcatttc	tttccttttt	ctttttcttt	gcgtcattgc	300
cattgggtgcc	actaattttg	cttcccttyt	cttttataaa	cttgtttcct	cnggagttgc	360
ctaagagtcc	tgcatnanaa	cctaattggg	aatgaagcag	tgtgttc		407

<210> 140  
 <211> 377  
 <212> DNA  
 <213> Homo sapiens

<400> 140

ttttttttttg	gaaaacaaaa	gaaccagcca	ttttawtcca	agacctatgt	tctggggcag	60
caggaataaaa	taaggaaggg	aggggacggg	ggcagggcag	gtagggttcta	cgtcttgcag	120
cacatcccac	actttgatcg	atgacagcag	ccgcagcaga	aaatgcagat	ggggaagtgg	180
gtgtctcgcc	tccttcgcct	ctggaacatg	ggcatccagc	tggccctggc	tccagctctg	240
tcctgggggtt	gcagctctgc	aagttgtccc	gtctgttggtg	ggaaaacaga	gccactggtc	300
aggctggcga	ggaggaggag	gagcaggagg	caagcggccc	agatctggga	gctcagtgcc	360
atcgtgccgt	ctgtctg					377

<210> 141  
 <211> 408  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (330)  
 <223> n equals a,t,g, or c

<400> 141						
attdagaata	atgccctaaa	cttgtaatgt	gagcagggtct	tcagagtttc	gagctgaagt	60
tacagggttta	gagttgtccg	ttggagggttt	ttgtttcttc	gtttaatgat	ttaaaaaacag	120
gttatgatac	aagatcttca	aaatgggtttt	accacatgca	tcatgactta	gaatcttcgt	180
tggctctttt	ggtttttttt	attcaaagtt	gaaatgcctc	acctcttctt	tctttttctc	240
tctactaacc	attdtctact	gagcacaccg	taccttatca	gtctcataac	tgggccacct	300
aactctscct	taagacagca	ctaggagttn	gacaccccag	araatctgta	agtcagtgtac	360
tgctcatcta	acgaacagtc	cctgctagcc	ttgcctgctt	cttttgca		408

<210> 142  
 <211> 1249  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1214)  
 <223> n equals a,t,g, or c

<400> 142						
ttttttttaa	atactcatgc	aattttat	ctagttgata	caatttttaa	ggccatgtac	60
aaatgttata	-catttttatt	tttgttct	tttttaggaa	aaatacacaa	aaggcaaaac	120
atcctcaaat	ggtcctttta	tacagtgcag	aaggaaat	caaatttcaa	atacgtgtca	180
caaagtctgc	actctagcag	ccaaaataca	aaaaaaaaa	ggagggtagt	ccttcatatt	240
atatatatat	ttatataaaa	catatggaaa	tttgttttta	cacagatcgg	tctttgtttc	300
aaatttacaa	tggatatcta	aaaaaaattc	tacacggcaa	atattgccaa	caaagttaca	360
ccattaatac	tgataaacgg	aggagcctac	gcggtgtttt	gattattagg	gaaagaaagt	420
agaataaata	aacaggagcc	ttgctatagt	ttttaaaagt	gccttaacct	ttctgcgtcc	480
ccgcaatcct	gaatccgcgc	ggtcaccggg	ccgtcctagt	ccctgcgtcg	cgctgtgttc	540
ggctcgttct	cggaccagaa	agtttacagt	agaggttgga	agacagaaaa	ataccactg	600
aaaaagtcta	aataaaattc	aagacaaaac	ataacagaag	aggctgaagc	gaaggaagag	660
gaggaacatg	gaaggggacg	gcagrcggac	gcccggaagg	ccgcttgctt	cgtggctcct	720
tcgactttct	gtttaaagac	ggacagtggc	ttccgaaatg	caagttgttc	gcacaaagat	780
ccacctgtgg	tcacgggagg	agacttcgga	ggtggggagg	gagatcggga	gggagatctg	840
agctcttgct	acttcccgct	ccctgcaaaa	gacggctcta	aagggagact	tgcgcattcc	900
aagacattct	ttcaaaaaaa	aaaataaaaa	ataaaaagat	aaataactca	ccaaaaaata	960
aaagtatttg	ataatgattg	gtctcacatg	tttgcctttt	ttctaaaaat	tttccccac	1020
ttctgccatt	ggccggaagg	aggggggacc	tcagcagaat	tcctgtgtgg	gtgcggaagg	1080
ctttcccttc	acagcacctg	ctcaggcggg	ttcaacagga	tcaaaaactt	ttatttaccg	1140
atggctgcag	tcagatcaga	cccaccacta	acatttctta	acaattttga	gggagtggag	1200
aaggagggtgc	caancgcagc	gctgtgtctt	tgcatggggg	actccttgc		1249

<210> 143  
 <211> 313  
 <212> DNA





<220>  
 <221> SITE  
 <222> (1545)  
 <223> n equals a,t,g, or c

<400> 145  
 aagggccgnc tggacatgga cggcctggag gtggtggacc tggaggacgg gaaggacaga 60  
 gacctccatg tgagcatcaa gaacgccttc cggctgcacc gtggcgccac aggggacagc 120  
 cacctgctgt gcaccaggaa gcctgagcag aagcagcgtt ggctcaaggc ctttgccagg 180  
 gagagggagc aggtgcagct ggascaggag acaggcttct ccatcactga actgcagagg 240  
 aagcaggcca tgctgaatgc cagcaagcag caggtcacag ggaagcccaa agctgttggc 300  
 cggccctgct acctgacgag ccagaagcac ccagccctgc ccagcaaccg gccccagcag 360  
 caggtcctgg tgctggcgga gccagggcgc aagcatncta ccttctggca cagcatcagc 420  
 cggctggcac ccttcgcgaa gtgaactggt ccctgcctga cagcacctgc tgggccttcc 480  
 tgccagtggc cccagttttt tcttccccga ggcccactcg gcctggcctt cctctgcctg 540  
 caagtragca gggatgggct ggggagttgc ttgtgccacc aagacgtgcc aggtctgtac 600  
 tcctgttgtc tttttccctg ctctgtgtgc cctgaagaga ccagcaargg ggcagacccc 660  
 gactcgcca caccgcccgt gcagcttggg ccatccgccc tctggacctg ttagaggcct 720  
 cactgctgga gcggggaaac scagctcagc ccaggccmag ctggggagaa ggcgctamct 780  
 gcgtgggacc ctcttctctg gaaacctaat cctcctttca tttcctctgg gcaggactct 840  
 ctggccttct gtggcctgca atgccaggcc atgtgcccct ctgccctcta gttctccaag 900  
 tccccagccc ggccagtggg gccaggcagc ttgccacttg ggagggcaga agccagggaat 960  
 tccacaccct tgtgttgccg ccggagcccg cccttcgcct cccagcccct caagacaccg 1020  
 ctggctgctg gacaccctct tcaacttgtgt gtgtgtgtgt agcggaagaa gacaagacgg 1080  
 tgcagtcggc tgcatactcc cagtcgggag tgtggtcagt ctgcctgctg ctgtgcggta 1140  
 gctccagaac cacctcgttc ctggttttgt ttggattttg gcatcttgtt tttctaacaa 1200  
 caaacaatgg agaaaaagaa ttgattctta gtgacacaga agattgcctt acgctcgtga 1260  
 gcgtgagaag ccataagaga gagaccgaat tctgtggctc agcacacagg actgaccac 1320  
 agcccaggca gcgggtgtgt ggagatggcg cctgtcctg ccaaggggag ccaggagcag 1380  
 agccagggcc tggcgagctg gcgtggagcc cacaggattc agcagcatgg acagtactc 1440  
 ttgcactatt ccttctccaa gccagaaacc acattttaatt tcataaataa atttatgaaa 1500  
 agtaaaaaaa aaaaaaaaaa gggcgggcgc tctagagnaa cnagnгаа 1548

<210> 146  
 <211> 386  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (7)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (31)  
 <223> n equals a,t,g, or c

<400> 146  
 gngtggngat cttgagtaat gtttacagga nacagctatg accatgatta cgccaagctc 60  
 gaaattaacc ctcactaaag ggaacaaaag ctggagctcc acccggtgg cgcccgctct 120  
 agaactagtg gatcccccg gctgcaggaa ttcggcacga gatgcataac tcaatacctt 180  
 gaacgtgtat catttctttg tgtaggaac attccaaatt ttctcttcta gctatttttc 240  
 aaatatataa cacattattg ttaactatgg tcaccctact gtgctatcaa acactagaat 300  
 gtattttctt tatctaactg tatttttctg ttcattactc cccagacccc cagcttcttg 360  
 taccattttca ttctttacct cctcga 386

<210> 147  
 <211> 452

<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (445)  
<223> n equals a,t,g, or c

<400> 147  
gaagaaagga agcaagcaag caagcaagga cttgggtaaa ttatatgggg ctgaactaag 60  
tgtattattc tgctctggct gccataacaa aatacaattg aaattaattt tctcacagtc 120  
tggagactgg aagtctaaga tcaagggtgcc agtaggggtg atgtctgatg agagctctcc 180  
cctcgggctg ccttcccact ctgtgttctt gtggcctttc cttgggtgcat gggcatgggg 240  
gagagatagt gcaaaactctt tgggtgtctct tcttataatg atatgaattc tgttggatca 300  
ggaactcact cttatgacat catttaactt cgattacttc ctttgaggcc tcatctccaa 360  
atacaagcac actgagggat gagcaacact ccaactcaaa aaaaaaaaaa aaaagaaaaa 420  
aagaaaaaaa actcgaaggg ggggncccg ta 452

<210> 148  
<211> 925  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (49)  
<223> n equals a,t,g, or c

<400> 148  
ttcctgaaga gcaaggcagg tgcactccca actggcagcc ccaactgtgna aattctaaat 60  
attctgcttt cagtctcagg ttgtcttctt tcttgctatc gtggtagcaa ctgtytgcat 120  
cctcttcaga acatgggagc ccccaagcta tggatctttt cccatagaaa aacaaggctg 180  
ggggcggttg ctccgaccta taatcccagc actttgggag gctgaggcga gctgatcacc 240  
tgaggtcagg agttcaagac cagcccggcc aacatggtga aaccccatct ctactcaaaa 300  
tacaaaaatt agccaggcgt gatggcacat gcctgtgatc ccagctactc gggaggctga 360  
ggcaggagaa tcacttgacc ctgggaggtg aaggttgagc tgagctgaga tcgtgccatt 420  
gcactcctgc ctgggcagca gagagagact ctgtctcaat taaaaaaaaaa aaaaaggaaa 480  
aacagctgtc agaacccttca tttgtagtga agtgaaaata agaccgtcaa atccttaaatg 540  
tgtttccttt gctacaaatt ctgcaattta atggagatca aagcttttaa ggatctcaaa 600  
ctcaamatac ttacgcatwg gragcaggca gatttcacag atgagtgaag cagaccattt 660  
gagtcctgaaa ggagtgaggat ctccaacagc ttaggtcagg gtgtgtactt ccctcactat 720  
tagctcagac aacttttggc atgtagcacc ttcagttcag tagtgacctt ctattgttaa 780  
agaaataaaa aaaattggcc cagctccgtg gctcatgcct gcaatcccaa cactttgaga 840  
gggtgaggca ggaggatcgc ttgcgtttag gagtttgaga ccagcctggg caacatagtg 900  
agaccccatc gctataaaaa aaaaa 925

<210> 149  
<211> 1753  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (129)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (1746)  
<223> n equals a,t,g, or c

<400> 149  
tccaccaga cccactctgg atccatttca aagaggtggc agtgaccctc atttaccac 60  
tggcagaggg ccccgaggtg atctgtgccc agatattgca gggctgtgca aaacaggccc 120

tggagaagnt	agaagagaag	agaaccagtc	aggaggaccc	gaagagtccc	ccgcaatgct	180
ccccactttc	ctgttgatga	acctgctgtc	cctggctggg	gatgtggctc	tgcagcagct	240
ggtccacttg	gagcaggcag	tgagtggaga	gctctgccgg	cgccgagttc	tccgggaaga	300
acaggagcac	aagaccaaag	atcccaagga	gaagaatacg	agctctgaga	ccaccatgga	360
ggaggagctg	gggctggttg	gggcaacagc	agatgacaca	gaggcagaac	taatccgtgg	420
catctgcgag	atggaactgt	tggatggcaa	acagacactg	gctgcctttg	ttccactctt	480
gcttaaagtc	tgtaaacaacc	caggcctcta	tagcaaccca	gacctctctg	cagctgcttc	540
acttgccctt	ggcaagttct	gcatgatcag	tgccactttc	tgcgactccc	agcttcgtct	600
tctgttcacc	atgctggaaa	agtctccact	tcccattgtc	cggcttaacc	tcatggttgc	660
cactggggat	ctggccatcc	gctttcccaa	tctgggtggac	ccctggactc	ctcatctgta	720
tgctcgcttc	cgggaccctg	ctcagcaagt	gcggaaaaca	gcggggctgg	tgatgaccca	780
cctgatcctc	aaggacatgg	tgaagggtgaa	ggggcagggtc	agcgagatgg	cgggtgctgct	840
catcgacccc	gagcctcaga	ttgctgccct	ggccaagaac	ttcttcaatg	agctctccca	900
caagggcaac	gcaatctata	atctccttcc	agatatcadc	agccgcctgt	cagaccccga	960
gctgggggtg	gaggaagagc	ctttccacac	catcatgaaa	cagctcctct	cctacatcac	1020
caaggacaag	cagacagaga	gcctgggtgga	aaagctgtgt	cagsggttcc	gcacatcccg	1080
aactgagcgg	cacagcgaga	cctggcctac	tgtgtgtcac	agctgccccct	cacagagcga	1140
ggcctccgta	agatgcttga	caatttttgac	tgttttggag	acaaactgtc	agatgagtcc	1200
atcttcagtg	cttttttgtc	agttgtgggc	aaagtgcgac	gtggggccaa	gcctgagggc	1260
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ggaatcaagg	agcttgagat	tggccaagca	ggtagccaga	gagcgccatc	agccaagaaa	1380
ccatccactg	gttctaggta	ccagcctctg	gcttctacag	cctcagacaa	tgactttgtc	1440
acaccagagc	cccgccttac	taccgcctcg	catccaaaca	cccagcagcg	agcttccaaa	1500
aagaaaccca	aagttgtctt	ctcaagtgat	gagtcagtg	aggaagatct	ttcagcagag	1560
atgacagaag	acgagacacc	caagaaaaca	actcccattc	tcagagcatc	ggctcgcagg	1620
cacagatcct	aggaagtctg	ttcctgtcct	ccctgtgcag	ggtatcctgt	aggggtgacct	1680
ggaattcgaa	ttctgttttc	cttgtaaaat	atttgtctgt	ctctttttta	aaaaaaaaaa	1740
aaggcngggc	act					1753

<210> 150  
 <211> 206  
 <212> DNA  
 <213> Homo sapiens

<400> 150						
ggcacgagct	tttccacccc	cgttgggtggc	ctgacaagtt	catctctaag	gttgggtttca	60
ctattgctaa	tgctagagac	ttgwcacaca	catttccaac	aatgaaactg	gaaaactatt	120
tattttgaaag	ccttttcttta	attatagttg	tttgggtctct	aagtaatagt	tctgaggttt	180
gcagaaaagt	aaaacaaata	gtagga				206

<210> 151  
 <211> 235  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (227)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (230)  
 <223> n equals a,t,g, or c

<400> 151						
ctgtggcctc	aacatatatc	tctgtaagag	tcccctgggc	ctaccataaa	aaaaggaccc	60
caaactgggg	gacttgaagc	agcagaaata	agattctctg	cttggttgagg	aggccagaag	120
gctggaagga	aggggtccct	gggggttgatt	gcttctggaa	actatgatgg	catattcatt	180
tcatgccttt	ctcttttttt	tttttttttt	ttggggaggg	gggaaanatn	cccc	235

<210> 152  
 <211> 1921

<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (1906)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (1907)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (1912)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (1921)  
<223> n equals a,t,g, or c

<400> 152  
gcgacgcgaa ggttgctcggg atccgcggca gcagcggctg cttgagatct gtttctgggg 60  
cctctggcgg tggcggcctg gggcggcgcg acggctgggt cgcaggtaca ctgatgctga 120  
agtactatga gccttcggaa cttgtggaga gactacaaag ttttggttgt tatggtcctt 180  
ttagttgggc tcatacattt ggggtggtac agaatacaaa gcagccctgt tttccaaata 240  
cctaaaaacg acgacattcc tgagcaagat agtctgggac tttcaaatct tcagaagagc 300  
caaatccagg ggaagtagca ggcttgcaat cttcaggtaa agaagcagct ttgaatctga 360  
gcttcataatc gaaagaagag atgaaaaata ccagttggat tagaaagaac tggcttcttg 420  
tagctgggat atctttcata ggtgtccatc ttggaacata ctttttgcag aggtctgcaa 480  
agcagtctgt aaaatttcag tctcaaagca aacaaaagag tattgaagag tgaagtaaaa 540  
taaataatttg gaattactaa tttgtcatta aatcattcta tgctgattag cttcataaac 600  
attgaacttt ttgattttat agccacaatg ctgcatattc atactttaat tcctaaagaa 660  
taatttttaa tgttaaaacg tgataatgca ataaatagaa aaatgtggtt tacaaaataa 720  
aaacggtcct cactagttac cacctgaagt aagatgtctc gtttggaagc taagaagcca 780  
tcattgtgta agagtgaacc actgacaact gagagagtca ggaccacact ttctgtcttg 840  
aaaagaattg taacatcatg ctatggcccc tcaggtaggc tgaagcagct gcacaatggc 900  
tttggagggt acgtgtgtac aacctcacag tcctcagctc tgctcagtc ccttttggtc 960  
acacatccca ttttaaagat cctgacagcc tcatacaga atcatgtgtc aagcttcagt 1020  
gattgtggct tattcacagc tattctttgc tgcaacctga ttgaaaatgt tcagagatta 1080  
ggcttgacac ccaccactgt cattagatta aataaacatc ttttgagtct ttgcatcagt 1140  
tatctcaagt ctgagacctg tggttgtcga atcccagtg acttttagtag tactcagatc 1200  
ctcctttggt tgggtgcgtag tatattaaca agtaaacctg cctgtatgct caccagaaag 1260  
gaaacagagc atgtcagtgc ttgtatcctg agagcctttt tgcttacaat tccagaaaat 1320  
gctgaaggcc acatcatttt aggaaagagt ttaattgtac ctttaaaagg tcaaagagtt 1380  
atagattcca ctgtattacc tgggatactc attgaaatgt cagaagttca attaatgagg 1440  
ctattaccta tcaaaaaatc aactgccctc aagggtggcac tcttttgtac aactttatcc 1500  
ggagacactt ctgacactgg agaaggaact gtggtgggtc gttatggggg ttctcttgaa 1560  
aatgcagtct tggaccagct gcttaacctc ggaaggcagc taatcagtga ccacgtagat 1620  
cttgtcctgt gccaaaaagt tatacatcca tctttgaagc agtttctcaa tatgcatcgt 1680  
attattgcca tagacagaat tggagtgaat ctgatggaac ccctgactaa aatgacagga 1740  
acacagccta ttggatccct aggctcaata tgtcctaata gttatggaag tgtgaaagat 1800  
gtgtgcactg caaaaatttg ctccaaacat ttttttcac twaattcctaa traagcaaca 1860  
atctgcagct tgcttctctg caacagaaat gaggggtgtt cccggnnact tncctaaaaa 1920  
n 1921

<210> 153  
<211> 2273  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE

<222> (146)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1087)  
 <223> n equals a,t,g, or c

<400> 153  
 agctgactga agccttcaaa tacttctctgc agtcatgaggga tacattgcgt acttgaagga 60  
 ccgaagctga gtggaggagc agtgccctca gccagcatga cccgcctggc acgctcccgc 120  
 actgcatccc tcaccagtgcc cagctncggg ggatggcagc cgcccacagg cctgcaccca 180  
 ctgagagagc agcagggggc tggggccagggt caaccacacc atggagggtgt cctgttgaag 240  
 cccttgatcc cgctgacgac gccacagtcg agggcccccagg gccatccttg cgccgggtca 300  
 tgttcccttt agtttatttt tgtgagggca aaggggaggga aatgggggttc tgtttgaaaa 360  
 aaatgagggg atcttagatg ctgcagcaga acagtctcca ggtgttttaa ggggctcagt 420  
 cctcctcatc ccatctcact ctccgtggta acttagccaa cttgaccctt ctcacccac 480  
 tcccggcgcc ccaggcacag aagggcaggg ccatagggag ggagattcgc tacggatcca 540  
 ggycattcct ggtgagcct ttgggcaggg catgttttga gatgagagag gcttcgagag 600  
 ggtgggtgct gggccacagg ggtgcggggc cagctcaggc actggcggtg gagccctggg 660  
 agaccccttc cccacccctc caccaagcac acctgtttct gtctcatagc acatgtgaca 720  
 atcatctgga caacagccac aagggggcgc tgggaccagg cagccacttt cctgggtgctc 780  
 tctgggcccc agtggtgctg tagggccacg caggcagggg cgtcaagggg tttctytgcc 840  
 caaggaagac agaactgga gaaccgtcag gcaaggaacc ccacagactg tcccttccag 900  
 cccacactct gccacctcct ggccctgtcc caattctgag ccaaggcctc cccgaggcag 960  
 aagttgcctg gtccctgtgc cccacagtga cctgactggg ggtgagggag aaggaggaga 1020  
 gagcccatgt gtggtgtgtg tgcccctgag aacttygtgg tgactgcctt tgggagcccg 1080  
 cagtggacca gaggcagggg tagctgagtt cctggagacc ccttttttgc cccaggttc 1140  
 cccagagggc aacgccatca gtgacagtgt ggtgtttcag gcagagctct ggccaggctg 1200  
 tgccagtgtg tcccggacgc atcactaagg aagagagagt ttatttagtc aactggccca 1260  
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 accccatagc atcttgccgc ccagaaacca gagccatttg tctcagaccc taaatcaata 1500  
 atcaciaaacc ccaaaacggg agagagcagt gaaaacatgc agggctgtgg acgggggaag 1560  
 ggttgtggcg ggtgttctga ggctgagagg acacctatat gcgtatttcc tctacacaca 1620  
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 gttctacccc ctcatgtgct tcttctgaat actgaatgtg actgtttgaa agctggtaga 1740  
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 cagatgtatc tataaatatc tatacattat atgtgtgtgt gtgtgtgtgt gtacatcggg 1860  
 tcttccccatg tgtggtgttc ttctggaggt tgtctctttg gtcaagggtga acttttaatg 1920  
 tttattattt tcttctccgc acaaagttaa gaggcctaatt ttgtgtattc tgggtggctgc 1980  
 tgtcatgaga tgataaaatg taaaacaaaa ctctagtcaa cgtagaaaga gttaactgtg 2040  
 ctgaaaaact aataaagaac ctaagaagaa ttccagtgtg gtgatgccat gccatcatg 2100  
 ggaggctttt ggagaaacag aatgtttggg caggggctgc tgggtgctgt tgggttttgg 2160  
 gttgaggggtg ctaggagagg atggtctcca cccatcttcc tatttccagt acacgtcaca 2220  
 ttattttacc ggtgagatga gaatgtcaca aacattaaaa gccttatgtg ctc 2273

<210> 154  
 <211> 1063  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (444)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (962)  
 <223> n equals a,t,g, or c

<400> 154  
 ggtcgaccca cgcgtccggc agtgaacact ctttgctaaa tttctgactg aatccaagat 60

ttttccttag	aatagattct	taaaagtggg	ggccagggtgc	ggtgggtcac	acctataatc	120
ccagcacctt	gggaggccga	ggtggccaga	tcattgaggt	caggagtttg	aaaccagcct	180
ggccaacatg	gtgaaacccc	gtctctacta	aaaatacaaa	aattagccag	gtgtgtgggg	240
cgtgcgcctg	tagtcccagc	tacttgggag	gctgaggcag	gagaatcgct	tgagcctggg	300
aagcagaggt	tgcattgggccc	gggatcacgc	cactgcactc	cagcctgggt	gacagcaaga	360
ctccatctaa	gaaaacaaaa	aaaaaaagta	cgattgggtgc	gccagagtga	acacaaaatg	420
taaagacttg	tgtattttgtg	agancctttt	gaagcatgct	atctccccag	ctamacccctc	480
ttcagggtgcc	ccttttctgc	tcctcctgct	tttcaaactg	tggctcgtgg	ttccaggctc	540
aagcacggac	atcagtragg	actgggagaa	agactttrac	ttggacatga	ctgaagagga	600
ggtgcagatg	gcactttcca	aagtggatgc	ctccggggag	gtgagtgggc	ctgggtgggtc	660
agaggggaagc	gagcctaattg	gtcctgggtg	tgagagctct	ccccagccag	cccagctgtc	720
ccctcaggag	ggtccctgct	cctgtytgag	gtgacagggtg	gtgggaaaagg	agctggagct	780
tcttgctcag	acccacaaca	ttgggtcatca	gcaggytgca	cttttcctca	gttccagggt	840
ggatagaggg	tcaagttctt	gaccttagct	ctgtatcaaa	attgcctgag	aaactgctta	900
agaaaacaga	tgtcatgctg	agcacgggtg	ctcacacctg	taatcccaac	actttgggag	960
gnccaaggtg	ggaggattgc	ttgaggcgag	gagttcaaga	ccagcctggc	caatatagtg	1020
agaccccat	tctgtttttg	aaaaaaaaa	aaaaagggcg	gcc		1063

<210> 155  
 <211> 500  
 <212> DNA  
 <213> Homo sapiens

<400> 155						
caggcaaagc	tcaggcagct	ggaggccctg	ctgagctccc	tgccccacc	ccaaagccag	60
aaggaggccc	aagttgcagc	ccgggttttg	agggagtttg	agatgaagcg	aatggatcct	120
ggcttccctg	acaagcaggc	tcgctgccac	tacctgaagg	gtaaaactgag	gcattctcaag	180
actcagatcc	agaaattcga	tgaccaagga	gacagcgagg	gctccgtgta	cttctaagtg	240
ccctgcaga	tgggcagagg	gatgcatggg	gatgcaggtc	ccttgcat	cttggatct	300
ctcagctttt	cctcttgtag	ctccccctac	caggggtcgc	tttctcctgg	attgcaaagt	360
cctcttcag	ttggactcag	ctctgacagc	ccctcctcca	ggaaggcctt	ccaggacttc	420
ctcctctggg	tcctctagct	ctgaccctac	agggactcca	gatctcaacc	tggtccctgg	480
aagtagggcc	tgctctccat					500

<210> 156  
 <211> 882  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (635)  
 <223> n equals a,t,g, or c

<400> 156						
gaattccaga	gaagaaatac	ccgcagccca	aagggcagaa	gaagaagaag	atcgtcaagt	60
acggcatggg	tggcctcatc	atcctcttcc	tcattcgccat	catctgggtc	ccgctgctct	120
tcattgtcgt	ggtgcgctcc	gtggttgggg	ttgtcaacca	gccccatgat	gtcaccgtca	180
ccctcaagct	gggcggctat	gagccgctgt	tcaccatgag	cgcccagcag	ccgtccatca	240
tcctcttcac	ggcccaggcc	tatgaggagc	tgtcccggca	gtttgacccc	cagccgctgg	300
ccatgcagtt	catcagccag	tacagccctg	aggacatcgt	cacggcgcag	attgagggca	360
gctccggggc	gctgtggcgc	atcagtcccc	ccagccgtgc	ccagatgaag	cgggastcta	420
caacggcacg	gccgacatca	ccctgcgctt	cacctggaac	ttccagaggg	acctggcgaa	480
gggaggcact	gtggagtatg	ccaacgagaa	gcacatgctg	gccctggccc	caacagcact	540
gcacggcggc	agtggccagc	ctgctcgagg	gcacctcgga	ccagtctgtg	gtcatcccca	600
atctcttccc	caagtacatc	cgtgccccca	acggncccga	agccaaccct	gtgaagcagc	660
tgacagccaa	tgaggaggcc	gactacctcg	gcgtgcgtat	ccagctgygg	agggagcagg	720
gtgcgggggc	caccggcttt	cctcgaatgg	tgggtcatcg	agctgcagga	gtgccggacc	780
gactgcaacc	ttgttgccca	tggtcatttt	aagtgaacaa	ggtcagccca	ccgagcctcg	840
gmttcctggc	tgrctamggg	tgagttagtg	gctggggggg	ca		882

<210> 157  
 <211> 1278

<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (108)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (1035)  
<223> n equals a,t,g, or c

<220>  
<221> SITE  
<222> (1243)  
<223> n equals a,t,g, or c

<400> 157  
ggcagcagggg ataatggagg ctactataaa aattgaatga gaaagtcagt gagatgcact 60  
gtttaatttc ctttctggct ctttctactgt ttctttttgt tttgtttntt cccttttctt 120  
tgccaataaa aaatatttgt tgagtaactc asgcctactg tacaaaagtaa caattctctc 180  
ctccctttcc atcttcttcc tctccagtyc tacttctgar aaagtaatcc ttaataacag 240  
tttgggtgtgt atccaaaaaa gcttttttgt agcattattc tccaaagtgt ttgaagcatt 300  
tcttctgata aagtttcttt agtcttttagc cagaactagt ctttggccca cttagtctat 360  
tgataaacag gaaatagcac atattccccc cttgaggsta gaatggcagg cctaaaatga 420  
gtaggagaat tctgagaaat ggaaacttta aaaaggcggc aaccttctag ttctattctc 480  
agaaatacca aagcagcatt tttcctggac ttgttctgca gacgctcag atttgaaagc 540  
catttctagc ctttgaggat taccactgtc ctcagccaaa ctgcagggac tcctaagtag 600  
atcagagctc ctggaacttt ctcacttttt cagcatctca accctgtgga atcttttaac 660  
tccaaggtta agtacagatt gtccagagag atctaagcca tgcttattca atggaatgga 720  
gagtctctca aagagacctc ataactctaa gatgaaaatc tcctctgtgg ctacagactt 780  
ttccagatat acccacttta ggcaagagag gatgaagtag acactttagg tctacacttt 840  
taataaataa gtgaaataga caatgagagg agctggtcct tagactgtac tcaccttgta 900  
gctgaggcca gggatgtagg actcaagccc agaggaaacct ggctgggctg agagaaagag 960  
atgtagaggg ttctcatagt tctggggaac aaaccttcag ataagacaag tgaggagact 1020  
tgggaggaag ggatnctgtg gaagattctc tttttttttt gagacagggt ctcactcttt 1080  
cgcccaggct gtcgtgcagt ggtgcgatca caactcactg cagcttcgac cttccagggc 1140  
tcaaaggatc ctctgcttc agcctttgaa agtgcgggga ctacaggcac tgagcgtgag 1200  
ggtgcctggc taattttttt cgtttctgta gagaggaagt ctngctagat tgaccagtct 1260  
agtgggcaat cctgcaaa 1278

<210> 158  
<211> 325  
<212> DNA  
<213> Homo sapiens

<400> 158  
aattcggcac gagaattagt tcattttccaa tcccagaaca catggaggga atcggacagg 60  
tgatgccagc agttcctgct cctctgtcag ggaagccagg cagagcccac agagcatggg 120  
ccatccagag tgttccctga gccccctcca ccatactgga acccctcttc agtgtaggaa 180  
gtctgaaatg ggtgctaatt cccttcttca tgaaaccagg gccctcttcc ttcatctaat 240  
gcagccactc ctaggtgaag aagtgggaat aattggaaat aaacaacagt tctaaaactt 300  
caaaaaaaaa aaaaaaaaaa aaaaa 325

<210> 159  
<211> 918  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (2)  
<223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (492)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (776)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (861)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (903)  
 <223> n equals a,t,g, or c

<400> 159  
 tngaaaaaaa tccggctcgt atgttgtgtg gaattgtgag cggataacaa tttcacacag 60  
 gaaacagcta tgaccatgat tacgccaaagc tatttaggtg acactataga atactcaagc 120  
 tatgcatcaa gcttggtacc gagctcggat ccactagtaa cggccgccag tgtgctggaa 180  
 ttcggccttg caccaacgag ttcatacctsa gcctgacagc caagctggat gagaatgaat 240  
 ggggctctgt gaggcattct gcagctccct cgacaatgct ctgcccgtac actctgttct 300  
 cgtggtttct gtctcctctt ctgtgtttac aggggtgggc agctgctaca gcccttgctt 360  
 cttccctgag tgcctcagag tgacagagat gaagaagcca cttggctcta ggaagtgtgg 420  
 cctggccttg atatggtttg gctttgtgtc cccacctaaa tctcatctgg gaattgtaat 480  
 cccccatgtg tnagacggaa ggaggtgatt ggatcatgga ggcaktttcc cccaagctgt 540  
 tctcatgata gtgagtgaat tctcacgaga tctgatggtt ttataagtgt atggaaagct 600  
 cctcctttac tcactcttct ctctcttgct gccttggtgaa gaaggtgact gcttcccctt 660  
 ctgccatgat tatgagtttc ctgaggcctc ccctgccatg cggaaactgta agtccattaa 720  
 agctcctttg ttataaaatt acccagtytc aggtatttct ttatagcagt gtaagnatga 780  
 actaatcacg tgtgagaact aatacaggca caggatgaac acgttggtga caagccgaat 840  
 tctgcagata tccatcacac nggcggccgc tcgagcatgc atctagaggg cccaattcgc 900  
 canatgggtga tcgtatta 918

<210> 160  
 <211> 320  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (313)  
 <223> n equals a,t,g, or c

<400> 160  
 gaattcggca cgagctcaac ctcaggaagt cagtccttgg gagccatgaa gtgcagcaat 60  
 gacaggccca tctggagaag acatgacggc tgggtctgca ggacysagmt arctcaggag 120  
 cagatttggg gatggcaatc agatgctgtt cttctacctc aaatgccttg atccttattc 180  
 tcttcamctg gacagttctt ctttcatcat ccmagatcca gytcttctcct gcccttcttt 240  
 aagagggctt tcatggacct tttccctggg gttattgcca tcataggcca ttccatggaa 300  
 ttttttttta aanggcattt 320

<210> 161  
 <211> 1339  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE



<222> (151)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (385)  
 <223> n equals a,t,g, or c

<400> 161

gcggaacgct	gggtcgaccc	acgcgtccgt	attactgcaa	tgtctgtaac	tgtttggtga	60
aggactccat	caactttt	gatcacatta	atggaaagaa	acatcagaga	aacctgggca	120
tgtctatgcg	tgtggaacgt	tccaccctgg	natcagggtga	agaaacgttt	tgagggtcaac	180
aagaagaaga	tggaagagaa	gcagaaggat	tatgaatttt	gaaggaaagg	atgaaggagc	240
tcagagaaga	ggaggaaaag	gccaaagcgt	acaagaaaga	gaaacagaag	gagaagaaaa	300
ggagggctga	ggaggacttg	acattttragg	aggacgatga	gatggcagct	gtgaatgggc	360
ttctytggct	ttgggtccac	caagnaagag	ttactgaggc	tttctgtgct	tggcctgact	420
ttggcctatg	ctggacctaa	ctttgcgtgt	gtgtgtgtgt	agtaggggggt	catttctttt	480
tgggtaaatg	gaaagtctct	aagagtgtca	atggggaggg	atagagggtg	ggggctcatg	540
gtttccctct	actttggggg	agggcacaga	ttgcagaggt	aatgctgtgg	catattgctt	600
ctgcctcagt	gtatcactgg	agtcacagga	ccctgcccac	ctgagttccc	aataaagaaa	660
aacctcccct	tctgaggctg	ctttcccaaa	actccccctg	catctttatc	tcttcatcta	720
tcccacctct	tgtctgaaca	tcccaccttt	atcctgtgtt	ctgcctttgt	tttaatttta	780
actcatgttc	atcctgcaac	agaagcattc	tctaggtccc	agtttccagt	tgattgcata	840
tccttgatca	gccctttttc	ccatcctgcc	ctatggttct	ctagccacct	gtgcatgcat	900
gtgtatttct	gcctgggttct	atggtgtgtg	gatgtgtgtg	catgaatctg	tcatatagag	960
ggggtccgag	ctggaatcct	agagcattgc	tgccctgggg	cctgatgttc	ttggcttctt	1020
cagagcatgt	aacaggaaat	taaatgggat	gagtgtttgg	tgtgggttgt	gtctgatgag	1080
ttttttaaca	ttcaggtgta	gattgtttca	gcttctcttg	tttcattttc	ctgaagattt	1140
atgtttttgt	ctaccttgtg	agcaggcttt	tggaagaacc	tgtttgatgc	aaaaaagaaa	1200
atgaaaaaca	aaacaaaaaa	tccccaaaac	cttattatgg	gagccktcgg	tcttagaagc	1260
tgtttgacat	gtataataaa	tggcattgac	tgggcctggt	ttacatttgg	tgagaacatt	1320
caaaaaaaaa	aaaaaaaaaa					1339

<210> 162  
 <211> 562  
 <212> DNA  
 <213> Homo sapiens

<400> 162

gaattcccgg	gtygaccac	gcgtccgccc	acgcgtccgg	tctcgaamtc	ctgacctcag	60
gtgatccgcc	cacctcggcc	tcccaaagt	ttgggattac	aggcatgaga	caccgcgccc	120
ggcggttttt	ttttttttt	tttctttcag	gaatttgggc	tgggcatggg	ggctcatgcc	180
tgtgatccca	gagctttggg	aagccgaggg	aggaggattg	cttgagccca	ccagttcaag	240
accagcctgg	gcmacatagt	gagacactgt	atctacaaaa	aattaaaaaa	ttagccaggc	300
ggctggacaa	ggtggctcac	gcctgtaatt	ctagcacttt	gggaggccaa	ggtgggcaga	360
tcacctgaga	tcgaragtgc	aaraccagcc	tgamcaacat	graraaacc	tgtctctact	420
aaaaatacaa	aattarctgg	gcgtgggtggc	gcatgcctgt	aatcccagct	acttggggagg	480
ctgaggcagg	agaatcactt	gaaccgggga	tgcagaagtt	gcggtgagcc	aagatcatgc	540
cgttgcactc	cagcttgggt	aa				562

<210> 163  
 <211> 352  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (347)  
 <223> n equals a,t,g, or c

<400> 163

ttctgggaat	gtcctccccg	tattttratat	tggtccctga	aatactactt	ggtattttgta	60
aacaaatgac	tgtgggtttg	cttccaagga	ctttaatgta	ggcttatctg	gctgaaraat	120
tttgtgaaaa	atgctcacgt	tagtgtcttt	tgtctttctc	ttgctcttgt	tagagtctat	180

gatttagagg	atgtatgctt	ggctgtggaa	tatctcggag	ctgaagagaa	gaaggccagg	240
tcttagcaty	ctttctatat	aaatgttttc	ataccttacc	ccattttcaa	tatggtagay	300
cctyctccac	catacakgtt	tctctcaatt	ttaggaatgt	gtttccncca	aa	352

<210> 164  
 <211> 660  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (559)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (592)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (645)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (649)  
 <223> n equals a,t,g, or c

<400> 164						
agnctgggaa	ctgtggatcc	aaggetgccc	ccaccccctg	ggctctcgctc	acatctgcac	60
tccccagagg	grcagggtgg	cctggagcct	agcctacctg	ccgagagtca	gaggtggctg	120
caggggaacc	atggcagccc	tccttctcac	actcatcctg	ggcaccctgc	accagcagaa	180
gggtttacat	gtacaatcac	ccatccctag	ccccttctgg	ggaggggaag	catatcttac	240
ggatggcgac	cttgaggctc	agggagggtta	aggtgccagc	ctgagatcac	acagccagtg	300
agaggcagag	acagggctta	aactccagac	gatggctcca	gagccccctc	tcctttccat	360
gcctgggctg	cctctttccc	artgcacctt	gctttttgga	accagatgac	caatgtggaa	420
agacatgaac	tgattcaatc	agagtgtatg	gagaagggac	ttatataccc	tggtattttt	480
aaagctccct	gtctctagta	aaaatacaaa	aattagccag	gcgtagtggc	aggcgctgtg	540
aatcccagct	actccagang	ctgaggcagg	agaattgctt	gaacctggga	antggaggtt	600
gccgtgagcc	agatcatgcc	actgcactcc	acctgggcaa	caaantgana	ctctgactcc	660

<210> 165  
 <211> 452  
 <212> DNA  
 <213> Homo sapiens

<400> 165						
gaattcggca	cgaggagccc	ttggccagct	ctgagacgct	ttgtgagacc	ccaaggtggg	60
tggttctagaa	ggaagaagct	ttggcttgct	tactggaacc	aagacaaaaa	ttccaaataa	120
aattccaaat	aaaaatgtaa	atcgagtttt	ttcctcgatt	gtcacagaga	ctctgggtgaa	180
tatgttaagt	tttcagaaag	cgattctttt	cctagcaatg	ggctgcttgc	cttgcatcc	240
tcaaggcctg	tcctgtgcct	tccatcctgc	atccttccac	aaggctctga	gtggctgtag	300
gacctcata	tgacaggagg	aggaggctga	ccttggccaa	ggtcacatat	cccttctttt	360
atccattcga	aaggctcttg	ctgttgactg	actatgcagc	agacatagct	gggcccctggg	420
gagatgtgca	aggcaaacac	acccaagaga	tt			452

<210> 166

<211> 573  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (231)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (559)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (565)  
 <223> n equals a,t,g, or c

<400> 166  
 ctcaagtgat cctccttgcc ctcagcttcg gcctagcgrg gatcacakgc atgagccgcc 60  
 acacccggcc atcacacctg gattttcagt gggagggttt tggtttggag acatccaaag 120  
 cctgaagcca ggtgggtgtg ggcaggggct gcattttatg aaactgcca gcaagctgcg 180  
 ctccctgggg ccccaggatc cacctaactg gcctkgcacc tgggtgccacg ntgctgctgc 240  
 cgccaggata tgcgccttcc cacaggtgcc ctgcctgagt tgtgtgcatc caggggcctg 300  
 gtgagccccc aggcctggtg catggccccc ctgccccgtg ctgaatgaat gtacagagcc 360  
 agacaaaagct gtgaatggcc taggggctga gtcccacacc agctgtgaat tctcctgcag 420  
 acaggagggc cctggctgtg cacctgggga agtgggtgcc ctggggccag ggtgcttgtt 480  
 ctgttcaaat aaagggtacct cttttccaca ctgaaaaaaa aaaaaaaaaa aactcggggg 540  
 ggggcccggg acccattnng ccctntagtg ggt 573

<210> 167  
 <211> 320  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (305)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (317)  
 <223> n equals a,t,g, or c

<400> 167  
 gaattcggca cgagtcacca cgtgctgagt gctgtgcatg gcgctgtgtg tcttcaatga 60  
 acagccggcg aatgcaggaa gaaggcgagg aacactgacc ttcattgggtg gcggagaagg 120  
 agcaccctaaa tggggatgtg tcacctgtgt gtccatgtcg gtctactggg ttctctgttt 180  
 ccatctcagg ctgcaggctt cgtgtggatg aggatggcac ctttctctgt cactgacaga 240  
 tactcagtgc ctacacagc gcctgggaca caggaggtgc tcgtaggggg ggttccggta 300  
 cccantcgtc cctgatnatg 320

<210> 168  
 <211> 431  
 <212> DNA  
 <213> Homo sapiens

<400> 168  
 ggttaagggtt aaggcacttt taaaaactat agcaaggctc ctgtttatatt attctacttt 60  
 ctttccctaa taatcaaaac accgcgtagg ctccctcggt tatcagtatt aatgggtgtaa 120  
 ctttgggtgc aatatttggc gtgtagaatt ttttttagat atccattgta aatttgaaac 180  
 aaagaccgat ctgtgtaaaa acaaatttcc atatgtttta tataaatata tatataatat 240

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gaaggactac cctccttttt ttttttgtat tttggctgct agagtgcagc atttgtgaca      300
cgtattttgaa atttgaaatt tccttctgca ctgtataaaa ggaccatttg aggatgtttt      360
gccttttgtg tattttttcc taaaaaaga acaaaaataa aaatgtataa catttgtaaa      420
aaaaaaaaat a                                     431

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<210> 169
<211> 162
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (158)
<223> n equals a,t,g, or c

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<400> 169
tttttttatg gtttctttat aaaagttcca acacctctat ctttctctta ttgcttatct      60
tacaaaatgt ggaacaattt gcagaatatt aatatcatgt cttaagtatt gccttaaattg      120
gtttgtggga tattacttga tttcacctt cttgatanat aa                          162

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<210> 170
<211> 1274
<212> DNA
<213> Homo sapiens

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<400> 170
tttgatcctg agagcctttt tgcttacaat tccagaaaat gctgaaggcc acatcatttt      60
aggaaagagt ttaattgtac ctttaaaagg tcaaagaggt atagattcca ctgtattacc      120
tggtgatactc attgaaatgt cagaagttca attaattgagg ctattaccta tcaaaaaatc      180
aactgccctc aaggtggcac tcttttgtac aactttatcc ggagacactt ctgacactgg      240
agaaggaact gtggtgggtc gttatggggg ttctcttgaa aatgcagtct tggaccagct      300
gcttaaccta ggaaggcagc taatcagtga ccacgtagat cttgtcctgt gccaaaaagt      360
tatacatcca tctttgaagc agtttctcaa tatgcatcgt attattgcca tagacagaat      420
tggaagtact ctgatggaac ccctgactaa aatgacagga acacagccta ttggatccct      480
aggctcaata tgccttaata gttatggaag tgtgaaagat gtgtgactg caaaatttgg      540
ctccaaacat ttttttcac ttattcctaa tggaagcaac aatctgcagc ttgcttctct      600
gcaacagaaa tgacactgcc tgggatgagc tgaagctcac gtgtcagacg gcaactgcag      660
tcctgcagtt aacactcaag gaacctggg ctttgttggg aggtggctgt actgaaactc      720
atttggctgc atatatcaga cacaagactc acaacgaccc agaaagcatt ctcaaagatg      780
atgaatgtac tcaaacagaa cttcaattaa ttgctgaagc attttgcagt gccctagaat      840
ctgttgttgg ctcttttaga catgatggag gtgaaattct cactgacatg aagtatggac      900
accttttggtc agttcaggca gattctccct gtgttgctaa ctggccagat ttgctttcac      960
agtgtggctg tggattatac aatagccagg aagaactcaa ctggtctttc ttaagaagca      1020
cacgtcgctc atttgtgcca caaagctgcc ttccacatga agctgtgggc tcagccagca      1080
acctgacctt ggactgtttg actgcaaagc ttagtggcct acaggtggct gtagagacag      1140
ccaatttgat tttggatctt tcatatgtta ttgaagataa aaactaagag aatagcatgt      1200
tcgtattaca agagaaacaa ataaactagt ctgttggcaa ttgagaaaaa aaaaaaaaaa      1260
aaaaaaaaac tcga                                     1274

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<210> 171
<211> 192
<212> PRT
<213> Homo sapiens

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<400> 171
Met Ser Gln Gln Lys Cys Ile Val Ile Phe Ala Leu Val Cys Cys Phe
 1             5             10             15

Ala Ile Leu Val Ala Leu Ile Phe Ser Ala Val Asp Ile Met Gly Glu
      20             25             30

Asp Glu Asp Gly Leu Ser Glu Lys Asn Cys Gln Asn Lys Cys Arg Ile
 35             40             45

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Ala Leu Val Glu Asn Ile Pro Glu Gly Leu Asn Tyr Ser Glu Asn Ala  
50 55 60  
Pro Phe His Leu Ser Leu Phe Gln Gly Trp Met Asn Leu Leu Asn Met  
65 70 75 80  
Ala Lys Lys Ser Val Asp Ile Val Ser Ser His Trp Asp Leu Asn His  
85 90 95  
Thr His Pro Ser Ala Cys Gln Gly Gln Arg Leu Phe Glu Lys Leu Leu  
100 105 110  
Gln Leu Thr Ser Gln Asn Ile Glu Ile Lys Leu Val Ser Asp Val Thr  
115 120 125  
Ala Asp Ser Lys Val Leu Glu Ala Leu Lys Leu Lys Gly Ala Glu Val  
130 135 140  
Thr Tyr Met Asn Met Thr Ala Tyr Asn Lys Gly Arg Leu Gln Ser Ser  
145 150 155 160  
Phe Trp Ile Val Asp Lys Gln His Val Tyr Ile Gly Ser Ala Gly Leu  
165 170 175  
Asp Trp Gln Ser Leu Gly Gln Val His Ile Leu Leu Tyr Ser Cys Lys  
180 185 190

<210> 172  
<211> 262  
<212> PRT  
<213> Homo sapiens

<400> 172  
Met Gln Lys Leu Glu Leu Asn His Ser Glu Leu Ile Gln Gln Ser Gln  
1 5 10 15  
Val Leu Trp Arg Met Ile Ala Glu Leu Lys Glu Arg Ser Gln Arg Pro  
20 25 30  
Val Arg Trp Met Leu Gln Asp Ile Gln Glu Val Leu Asn Arg Ser Lys  
35 40 45  
Ser Trp Ser Leu Gln Gln Pro Glu Pro Ile Ser Leu Glu Leu Lys Thr  
50 55 60  
Asp Cys Arg Val Leu Gly Leu Arg Glu Ile Leu Lys Thr Tyr Ala Ala  
65 70 75 80  
Asp Val Arg Leu Asp Pro Asp Thr Ala Tyr Ser Arg Leu Ile Val Ser  
85 90 95  
Glu Asp Arg Lys Arg Val His Tyr Gly Asp Thr Asn Gln Lys Leu Pro  
100 105 110  
Asp Asn Pro Glu Arg Phe Tyr Arg Tyr Asn Ile Val Leu Gly Ser Gln  
115 120 125  
Cys Ile Ser Ser Gly Arg His Tyr Trp Glu Val Glu Val Gly Asp Arg  
130 135 140  
Ser Glu Trp Gly Leu Gly Val Cys Lys Gln Asn Val Asp Arg Lys Glu

145                      150                      155                      160  
 Val Val Tyr Leu Ser 165 Pro His Tyr Gly Phe 170 Trp Val Ile Arg Leu Arg 175  
 Lys Gly Asn Glu Tyr Arg Ala Gly Thr 185 Asp Glu Tyr Pro Ile Leu Ser 190  
 Leu Pro Val Pro Pro Arg Arg Val 200 Gly Ile Phe Val Asp Tyr Glu Ala 205  
 His Asp Ile Ser Phe Tyr Asn 215 Val Thr Asp Cys Gly 220 Ser His Ile Phe 210  
 Thr Phe Pro Arg Tyr Pro 230 Phe Pro Gly Arg Leu 235 Leu Pro Tyr Phe Ser 240  
 Pro Cys Tyr Ser Ile Gly Thr Asn Asn Thr 250 Ala Pro Leu Ala Ile Cys 255  
 Ser Leu Asp Gly Glu Asp 260

<210> 173  
 <211> 98  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 173  
 Met Arg Phe Ala Val Val Phe Leu Met Gln Phe Pro Thr Ser Leu Gln 15  
 1                      5                      10  
 Met Pro Phe Asp Ile Trp Gln His Phe Met Pro Leu Pro Leu Ser Val 30  
 20                      25                      30  
 Phe Ile Leu Val Phe Ser Pro Phe Ser His Xaa Leu Gly Ser Leu Leu 45  
 35                      40                      45  
 Gln Ser Arg Phe Ser Asp Phe Arg Phe Phe Ser Leu Cys Pro Phe Pro 60  
 50                      55                      60  
 Leu Cys Pro Val Thr Arg Ser Thr Phe Trp His Arg Pro Ile Ser Gln 80  
 65                      70                      75  
 Phe Pro Leu Ser Gln Val Gln Gln His Leu Lys Asp Ile Tyr Lys Arg 95  
 85                      90                      95  
 Asp Thr

<210> 174  
 <211> 116  
 <212> PRT  
 <213> Homo sapiens

<400> 174  
 Met Arg Pro Phe Leu Thr Ile Pro Leu Asn Ile Ala Leu Phe Phe Cys 15  
 1                      5                      10

Thr Asp Pro Thr Pro Val Ala Leu Phe His Phe Ser Pro Glu Arg Leu  
                   20                  25                  30  
 Pro Pro Phe Thr Leu Leu Gln Asn Ser Leu Asp Phe His Ile Thr Ser  
                   35                  40                  45  
 Leu Pro Val Cys His Leu Ser Pro Pro Leu Glu Cys Gln Leu Gln Glu  
           50                  55                  60  
 Gly Arg Asp Leu Gly Leu Cys Val His Cys Cys Val Pro Met Met Gln  
   65                  70                  75                  80  
 Gln Arg Val Leu Ser Lys Cys Leu Leu Ser Asp Cys Ile Asn Glu Trp  
                   85                  90                  95  
 Val Lys Cys Ile Gly Ile Lys Asn Met Gly Met Lys Pro Gly Val Val  
           100                  105                  110  
 Gly Ser Cys Leu  
           115

<210> 175  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 175  
 Met Leu His Leu Lys Leu Trp Ser Phe Pro Val Ile Ser Val Phe Gly  
   1                  5                  10                  15  
 Val Val Leu Phe Phe Phe Leu Gln Glu Leu Leu Gln Glu Glu Arg Thr  
           20                  25                  30  
 Met Ser Ser Thr Leu Glu Gly Ala Met Gly Thr Lys Gln Asn Ser Glu  
           35                  40                  45  
 Ala Pro Ser Thr Ile  
           50

<210> 176  
 <211> 99  
 <212> PRT  
 <213> Homo sapiens

<400> 176  
 Met Leu Ser Pro Gln Leu His Pro Leu Gln Val Pro Leu Pro Cys Leu  
   1                  5                  10                  15  
 Leu Leu Leu Phe Thr Leu Trp Leu Val Val Pro Gly Ser Ser Thr Asp  
           20                  25                  30  
 Ile Ser Glu Asp Trp Glu Lys Asp Phe Asp Leu Asp Met Thr Glu Glu  
           35                  40                  45  
 Glu Val Gln Met Ala Leu Ser Lys Val Asp Ala Ser Gly Glu Val Ser  
           50                  55                  60  
 Gly Pro Gly Gly Ser Glu Gly Ser Glu Pro Asn Gly Pro Gly Cys Glu  
   65                  70                  75                  80  
 Ser Ser Pro Gln Pro Ala Gln Leu Ser Pro Gln Glu Gly Pro Cys Ser  
           85                  90                  95  
 Cys Leu Arg

<210> 177  
 <211> 124  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (74)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (88)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (92)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (95)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 177  
 Met His Pro Ala Ala Phe Pro Leu Pro Val Val Val Ala Ala Val Leu  
   1                  5                  10                  15  
 Trp Gly Ala Ala Pro Thr Arg Gly Leu Ile Arg Ala Thr Ser Asp His  
           20                  25                  30  
 Asn Ala Ser Met Asp Phe Ala Asp Leu Pro Ala Leu Phe Gly Ala Thr  
       35                  40                  45  
 Leu Ser Gln Glu Gly Leu Gln Gly Phe Leu Val Glu Ala His Pro Asp  
   50                  55                  60  
 Asn Ala Cys Ser Pro Ile Ala Pro Pro Xaa Pro Ala Pro Val Asn Gly  
   65                  70                  75                  80  
 Ser Val Phe Ile Ala Leu Leu Xaa Arg Phe Asp Xaa Asn Phe Xaa Leu  
           85                  90                  95  
 Lys Val Leu Asn Ala Gln Lys Ala Gly Tyr Gly Ala Ala Val Val His  
       100                  105                  110  
 Asn Val Asn Ser Asn Glu Leu Leu Asn Met Val Leu  
   115                  120

<210> 178  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 178  
 Met Ala Trp Arg Val Trp Cys Leu Trp Gly Ile Pro Pro Leu Phe Cys  
   1                  5                  10                  15  
 Ser Pro Gly Thr Leu Ser Cys Val Cys Val Ser Phe Leu Ser Pro Gly  
       20                  25                  30



$\langle 210 \rangle$  180

<211> 379  
 <212> PRT  
 <213> Homo sapiens

<400> 180

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Met  Pro  Thr  Ser  Ser  Ser  Ser  Asn  Ala  Ala  Glu  Arg  Gln  Arg  Arg  Asn
  1          5          10          15

Thr  Arg  Ser  Pro  Lys  Gly  Gln  Lys  Lys  Lys  Lys  Ile  Val  Lys  Tyr  Gly
          20          25          30

Met  Gly  Gly  Leu  Ile  Ile  Leu  Phe  Leu  Ile  Ala  Ile  Ile  Trp  Phe  Pro
          35          40          45

Leu  Leu  Phe  Met  Ser  Leu  Val  Arg  Ser  Val  Val  Gly  Val  Val  Asn  Gln
          50          55          60

Pro  Ile  Asp  Val  Thr  Val  Thr  Leu  Lys  Leu  Gly  Gly  Tyr  Glu  Pro  Leu
          65          70          75          80

Phe  Thr  Met  Ser  Ala  Gln  Gln  Pro  Ser  Ile  Ile  Pro  Phe  Thr  Ala  Gln
          85          90          95

Ala  Tyr  Glu  Glu  Leu  Ser  Arg  Gln  Phe  Asp  Pro  Gln  Pro  Leu  Ala  Met
          100          105          110

Gln  Phe  Ile  Ser  Gln  Tyr  Ser  Pro  Glu  Asp  Ile  Val  Thr  Ala  Gln  Ile
          115          120          125

Glu  Gly  Ser  Ser  Gly  Ala  Leu  Trp  Arg  Ile  Ser  Pro  Pro  Ser  Arg  Ala
          130          135          140

Gln  Met  Lys  Arg  Glu  Leu  Tyr  Asn  Gly  Thr  Ala  Asp  Ile  Thr  Leu  Arg
          145          150          155          160

Phe  Thr  Trp  Asn  Phe  Gln  Arg  Asp  Leu  Ala  Lys  Gly  Gly  Thr  Val  Glu
          165          170          175

Tyr  Ala  Asn  Glu  Lys  His  Met  Leu  Ala  Leu  Ala  Pro  Asn  Ser  Thr  Ala
          180          185          190

Arg  Arg  Gln  Leu  Ala  Ser  Leu  Leu  Glu  Gly  Thr  Ser  Asp  Gln  Ser  Val
          195          200          205

Val  Ile  Pro  Asn  Leu  Phe  Pro  Lys  Tyr  Ile  Arg  Ala  Pro  Asn  Gly  Pro
          210          215          220

Glu  Ala  Asn  Pro  Val  Lys  Gln  Leu  Gln  Pro  Asn  Glu  Glu  Ala  Asp  Tyr
          225          230          235          240

Leu  Gly  Val  Arg  Ile  Gln  Leu  Arg  Arg  Glu  Gln  Gly  Ala  Gly  Ala  Thr
          245          250          255

Gly  Phe  Leu  Glu  Trp  Trp  Val  Ile  Glu  Leu  Gln  Glu  Cys  Arg  Thr  Asp
          260          265          270

Cys  Asn  Leu  Leu  Pro  Met  Val  Ile  Phe  Ser  Asp  Lys  Val  Ser  Pro  Pro
          275          280          285

Ser  Leu  Gly  Phe  Leu  Ala  Gly  Tyr  Gly  Ile  Met  Gly  Leu  Tyr  Val  Ser
          290          295          300

Ile  Val  Leu  Val  Ile  Gly  Lys  Phe  Val  Arg  Gly  Phe  Phe  Ser  Glu  Ile
          305          310          315          320

Ser  His  Ser  Ile  Met  Phe  Glu  Glu  Leu  Pro  Cys  Val  Asp  Arg  Ile  Leu

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<210> 181
<211> 47
<212> PRT
<213> Homo sapiens

<400> 181
Met Phe Gly Ser Arg Gly Leu Leu Cys Met Cys Val Phe Phe Phe Asn
 1           5          10         15
Ile Leu Ala Ser Gln Cys Lys Val Ile Ser Ser Gly Gly Met Leu Cys
          20          25          30
Cys Arg Thr Pro Thr Leu Leu Asp Tyr Leu Arg Gln His Phe Leu
      35          40          45

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<220>  
<221> SITE  
<222> (52)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (88)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (122)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>  
<221> SITE  
<222> (142)
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$\langle 220 \rangle$ 

<222> (145)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$ 

<221> SITE

<222> (152)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$ 

<221> SITE

$\langle 222 \rangle$  (167)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$ 

<221> SITE

$\langle 222 \rangle$  (192)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$ 

<221> SITE

 $\langle 222 \rangle$  (212)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$ 

<221> SITE

 $\langle 222 \rangle$  (233)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 182

Met Arg Leu Arg Phe Trp Leu Leu Ile Trp Leu Leu Leu Gly Phe Ile  
1 5 10 15

Ser His Gln Pro Thr Pro Val Ser Phe Leu Lys Thr Ile Phe Trp Ser  
20 25 30

Arg Asn Gly His Asp Arg Ser Arg Asp Val Gln Gln Arg Ala Arg Arg  
35 40 45

Ser Asn Arg Xaa Arg Gln Xaa Gly Ile Lys Ile Gly Leu Glu Asp Ile  
50 55 60

Cys Thr Leu Trp Lys Gln Ala Glu Thr Lys Val Gln Ala Lys Ile Arg  
65 70 75 80

Lys Met Lys Val Thr Lys Lys Xaa Asn His His Xaa Lys Ile Asn Gly  
85 90 95

Lys Arg Lys Thr Ala Lys Asn Arg Lys Cys Phe Asn Val Arg Lys Ser  
100 105 110

Cys Gly Gly Gly Gln Arg Thr Thr Thr Xaa Ala Lys Ser Pro Xaa Leu  
115 120 125

Gln Glu Ser Leu Phe Ala Thr Gly Ser Glu Trp Arg Gln Xaa Ser Met  
130 135 140

Xaa His Ser Ser Gly Leu Pro Xaa Trp Pro Tyr Leu Thr Ala Glu Thr  
145 150 155 160

Leu Lys Asn Arg Met Gly Xaa Gln Pro Pro Pro Pro Thr Gln Gln His  
165 170 175

Ser Ile Thr Asp Asn Ser Leu Ser Leu Lys Thr Pro Pro Glu Cys Xaa  
 180 185 190  
 Leu His Pro Leu Pro Pro Ser Val Asp Asp Asn Ile Lys Glu Cys Pro  
 195 200 205  
 Leu Ala Pro Xaa Pro Pro Ser Val Asp Asp Asn Leu Lys Glu Cys Leu  
 210 215 220  
 Pro Gly Pro Ser Ser Thr Leu Ser Xaa Ser Thr Leu Ser Gly  
 225 230 235

<210> 183  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 183  
 Met Ser His Phe Val Leu Phe Leu Ile Leu Leu Ile Leu Ser Leu Ser  
 1 5 10 15  
 Lys Asp Thr Asn Leu Trp Ile Gln Val Lys Gly  
 20 25

<210> 184  
 <211> 101  
 <212> PRT  
 <213> Homo sapiens

<400> 184  
 Met Gly Cys Leu Cys Leu Ser Leu Thr Met Gly Cys Leu Val Tyr Gly  
 1 5 10 15  
 Leu Leu Gln Gly Trp Gly Lys Lys Pro Tyr Trp Gln Val Ala Pro Ile  
 20 25 30  
 Gln Leu Glu Pro Ile Phe His Arg Arg Ser Gly Cys Glu Pro Leu Ala  
 35 40 45  
 Ile Ile Ile His Ser Leu Trp Gly Met Gly Thr Pro Ala Val Lys Arg  
 50 55 60  
 Ile Trp Ala Arg His Gln Arg Tyr Pro Pro His His Asp Gly Tyr Asn  
 65 70 75 80  
 Leu Val Ser Lys Arg Glu Gly Arg Gln Asp Leu Gly Leu Thr Leu Val  
 85 90 95  
 Tyr Arg Pro Glu Asn  
 100

<210> 185  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 185

Met Lys Pro Leu Gln His Xaa Gly Xaa Arg Ile Phe Phe Leu Gly Leu  
1 5 10 15

Ser Ala Pro Phe Asn Pro Gly Leu Cys Gln Ala Ala Pro Leu Leu Arg  
20 25 30

Gly Phe Trp Gly  
35

<210> 186

<211> 27

<212> PRT

<213> Homo sapiens

<400> 186

Met Pro Lys Thr Leu Leu Arg Ser Phe Leu Leu Leu Phe Phe Leu Leu  
1 5 10 15

Gln Thr His Ser Ser Ser Leu Arg Lys Val Lys  
20 25

<210> 187

<211> 25

<212> PRT

<213> Homo sapiens

<400> 187

Met Leu Val Leu Leu Leu Phe Trp Ser Leu Gly Trp Asn Lys Lys Val  
1 5 10 15

Val Leu Pro Leu Asp Ser Leu Cys Pro  
20 25

<210> 188

<211> 80

<212> PRT

<213> Homo sapiens

<400> 188

Met Cys Val Val Cys Val Cys Val Trp Cys Met Cys Val Cys Gly Val  
1 5 10 15

Cys Val Cys Leu Cys Val Cys Gly Val Cys Met Cys Ile Ser Leu Asn  
20 25 30

Glu Lys Leu Ala Pro Met Ile Met Glu Leu Thr Thr Pro Lys Val Cys  
35 40 45

Arg Gln Gln Ala Gly Gly Pro Gly Gly Pro Val Val Trp Leu Gln Pro  
50 55 60

Val Ser Glu Gly Leu Arg Thr Arg Arg Ala Gly Gly Ala Ala Ala Val  
65 70 75 80

<210> 189

<400>	189																
Met	Lys	Asn	Pro	Ile	Leu	Glu	Arg	Leu	Ala	Glu	Gln	Ile	Ala	Thr	Leu		
1				5					10					15			
Cys	Ala	Thr	Leu	Lys	Glu	Tyr	Pro	Ala	Val	Arg	Tyr	Arg	Gly	Glu	Tyr		
			20					25					30				
Lys	Asp	Asn	Ala	Leu	Leu	Ala	Gln	Leu	Ile	Gln	Asp	Lys	Leu	Asp	Ala		
		35					40					45					
Tyr	Lys	Ala	Asp	Asp	Pro	Thr	Met	Gly	Glu	Gly	Pro	Asp	Lys	Ala	Arg		
	50					55					60						
Ser	Gln	Leu	Leu	Ile	Leu	Asp	Arg	Gly	Phe	Asp	Pro	Ser	Ser	Pro	Val		
65					70					75					80		
Leu	His	Glu	Leu	Thr	Phe	Gln	Ala	Met	Ser	Tyr	Asp	Leu	Leu	Pro	Ile		
				85					90					95			
Glu	Asn	Asp	Val	Tyr	Lys	Tyr	Glu	Thr	Ser	Gly	Ile	Gly	Glu	Ala	Arg		
			100					105					110				
Val	Lys	Glu	Val	Leu	Leu	Asp	Glu	Asp	Asp	Asp	Leu	Trp	Ile	Ala	Leu		
		115					120					125					
Arg	His	Lys	His	Ile	Ala	Glu	Val	Ser	Gln	Glu	Val	Thr	Arg	Ser	Leu		
	130					135					140						
Lys	Asp	Phe	Ser	Ser	Ser	Lys	Arg	Met	Asn	Thr	Gly	Glu	Lys	Thr	Thr		
145					150					155					160		
Met	Arg	Asp	Leu	Ser	Gln	Met	Leu	Lys	Lys	Met	Pro	Gln	Tyr	Gln	Lys		
				165					170					175			
Glu	Leu	Ser	Lys	Tyr	Ser	Thr	His	Leu	His	Leu	Ala	Glu	Asp	Cys	Met		
			180					185					190				
Lys	His	Tyr	Gln	Gly	Thr	Val	Asp	Lys	Leu	Cys	Arg	Val	Glu	Gln	Asp		
		195					200					205					
Leu	Ala	Met	Gly	Thr	Asp	Ala	Glu	Gly	Glu	Lys	Ile	Lys	Asp	Pro	Met		
	210					215					220						
Arg	Ala	Ile	Val	Pro	Ile	Leu	Leu	Asp	Ala	Asn	Val	Ser	Thr	Tyr	Asp		
225					230					235					240		
Lys	Ile	Arg	Ile	Ile	Leu	Leu	Tyr	Ile	Phe	Leu	Lys	Asn	Gly	Ile	Thr		
				245					250					255			
Glu	Glu	Asn	Leu	Asn	Lys	Leu	Ile	Gln	His	Ala	Gln	Ile	Pro	Pro	Glu		
			260					265					270				
Asp	Ser	Glu	Ile	Ile	Thr	Asn	Met	Ala	His	Leu	Gly	Val	Pro	Ile	Val		
		275					280					285					
Thr	Asp	Ser	Thr	Leu	Arg	Arg	Arg	Ser	Lys	Pro	Glu	Arg	Lys	Glu	Arg		
	290					295					300						
Ile	Ser	Glu	Gln	Thr	Tyr	Gln	Leu	Ser	Arg	Trp	Thr	Pro	Ile	Ile	Lys		
305					310					315					320		</

325 330 335  
 Pro Tyr Ile Ser Thr Arg Ser Ser Ala Ser Phe Ser Thr Thr Ala Val  
 340 345 350  
 Ser Ala Arg Tyr Gly His Trp His Lys Asn Lys Ala Pro Gly Glu Tyr  
 355 360 365  
 Arg Ser Gly Pro Arg Leu Ile Ile Phe Ile Leu Gly Gly Val Ser Leu  
 370 375 380  
 Asn Glu Met Arg Cys Ala Tyr Glu Val Thr Gln Ala Asn Gly Lys Trp  
 385 390 395 400  
 Glu Val Leu Ile Gly Ser Thr His Ile Leu Thr Pro Gln Lys Leu Leu  
 405 410 415  
 Asp Thr Leu Lys Lys Leu Asn Lys Thr Asp Glu Glu Ile Ser Ser  
 420 425 430

<210> 190  
 <211> 88  
 <212> PRT  
 <213> Homo sapiens

<400> 190  
 Met His Cys Leu Ile Ser Phe Leu Ala Leu Ser Leu Phe Leu Tyr Val  
 1 5 10 15  
 Cys Phe Ser Leu Phe Leu Ala Asn Lys Lys Tyr Leu Leu Ser Asn Ser  
 20 25 30  
 Arg Leu Leu Tyr Lys Val Thr Ile Leu Ser Ser Leu Ser Ile Phe Phe  
 35 40 45  
 Leu Ser Ser Ser Thr Ser Glu Lys Val Ile Leu Asn Asn Ser Leu Val  
 50 55 60  
 Cys Ile Gln Lys Ser Phe Phe Val Ala Leu Phe Ser Lys Val Phe Glu  
 65 70 75 80  
 Ala Phe Leu Leu Ile Lys Phe Leu  
 85

<210> 191  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 191  
 Met Ala Pro Ser Pro Phe Trp Val Leu Ile Met Pro Leu Leu Val Thr  
 1 5 10 15  
 Leu Gly Ser Cys Cys Thr Gln Val Met Gly Pro Pro Ala  
 20 25

<210> 192  
 <211> 115  
 <212> PRT  
 <213> Homo sapiens

<400> 192  
 Met Phe Ser Ile Arg Ile Leu Ser Ser Ser Ala Phe Cys Ser Cys Ser



1	5	10	15
Phe Leu Ala Cys Ser Ser Ala Leu Ser Phe Leu Ile Phe Ser Ser Ser	20	25	30
Ala Arg Arg Ala Ala Val Ser Ser Ser Ser Leu Ser Ser Lys Ser	35	40	45
Ser Ser Ser Ser Ser Val Arg Gly Ser Ser Ala Ser Arg Leu Ala Ala	50	55	60
Gly Ile Trp Ser Asn Arg Gly Phe Phe Asp Thr Glu Glu Glu Val Val	65	70	75
Cys Ser Arg Val Gly Arg Ser Leu Phe Phe Ser Leu Ala Ala Ala Leu	85	90	95
Ser Leu Ser Ser Asn Ser Leu Leu Lys Ser Arg Leu Arg Thr Ser Ser	100	105	110
Gly Ala Ser	115		

<210> 193  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring L-amino acids

1	5	10	15
Met Ala Leu Leu Leu Ala Val Pro Pro Val Lys Ser Phe Leu Thr			
Lys Lys Lys Lys Lys Lys Asn Ser Arg Gly Ala Arg Tyr Pro Ile Arg	20	25	30
Pro Ile Val Ser Arg Ile Thr Ile His Trp Pro Ser Xaa	35	40	45

<210> 194  
 <211> 60  
 <212> PRT  
 <213> Homo sapiens

1	5	10	15
Met Lys Trp Lys Trp Ile Ile Met Lys Val Phe Ile Pro Val Phe Thr			
Leu Ser Arg Leu Ser Cys Cys Leu Arg Gly Gly Arg Gly Gly Arg Gly	20	25	30
Gly Gly Ser Gly Trp Gly Gly Gly Arg Gly Gly Gly Ser Gly Trp Glu	35	40	45
Gly Gly Arg Gly Arg His Thr Trp Cys Asn Phe Cys	50	55	60

<210> 195  
 <211> 62

<212> PRT  
<213> Homo sapiens

<400> 195  
Met Arg Lys Lys Ser Phe His Ala Glu Tyr Tyr Asn Ser Leu Leu Leu  
1 5 10 15  
Leu Leu Phe Leu Pro Glu Asn Asn Asp Ser Arg Gln Asp Ile Gly Arg  
20 25 30  
Val Ile Phe Gly Glu Ser Asp Gln Pro Lys Ser Lys Tyr Leu Lys Val  
35 40 45  
Leu Ile Leu Glu Ile Pro Arg Lys Trp Leu Ser Gln Thr Tyr  
50 55 60

<210> 196  
<211> 113  
<212> PRT  
<213> Homo sapiens

<400> 196  
Met Asp Pro Glu Pro Gln Thr Phe His Pro Val Leu Ser Leu Leu Ser  
1 5 10 15  
Phe Leu Phe Lys Ala Pro Leu Val Pro Pro Gly Ser Pro Val Val Asn  
20 25 30  
Ala Leu Phe Arg Gln Arg Ser Cys Ile Glu Asn Ile Leu Arg Ala Cys  
35 40 45  
Val Gly Leu Pro Pro Gln Asn His Met Leu Leu Glu His Lys Met Glu  
50 55 60  
Arg Pro Gly Pro Ser Leu Lys Arg Val Gly Pro Val Ala Ala Thr Tyr  
65 70 75 80  
Pro Met Leu Asn Lys Lys Gly Pro Val Pro Ala Ala Thr Asn Gly Cys  
85 90 95  
Thr Gly Asp Ala Asn Gly His Leu Gln Glu Glu Pro Pro Met Pro Thr  
100 105 110  
Thr

<210> 197  
<211> 69  
<212> PRT  
<213> Homo sapiens

<400> 197  
Met Leu Ser Gly Thr Leu Leu Ser Phe Pro Ile Val Ala Cys Ala Ser  
1 5 10 15  
Ile Leu Tyr Leu Ala Gln Thr Trp Cys Gln Glu Trp Asn His Leu Asp  
20 25 30  
Phe Ser Ala Ser Ala Asn Ile Pro Ser Leu Ile Tyr His Pro Met Met  
35 40 45  
Lys Lys Ile Ile Ala Cys Ile Leu Lys Leu Lys Thr Ser Val Leu Pro  
50 55 60

Gln Ile Pro Glu Thr  
65

<210> 198  
<211> 27  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (15)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 198  
Met Gly Ser Ser Arg Gly Val Leu Phe Cys Phe Val Leu Ile Xaa Leu  
1 5 10 15

Val Val Gly Ile Ala Gly Arg Glu Ile Lys Phe  
20 25

<210> 199  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 199  
Met Asn Cys Ala Lys Ala Ser Pro Val Val Ile Leu Pro Leu Val Ala  
1 5 10 15

Leu Pro Val Leu Ala Pro His Pro Thr Pro Met Pro Leu Phe Pro Tyr  
20 25 30

Arg Phe

<210> 200  
<211> 47  
<212> PRT  
<213> Homo sapiens

<400> 200  
Met Leu Leu Leu Leu Ser Leu Ser Ser Pro Pro His Pro Ser Arg Pro  
1 5 10 15

Ser Leu Asn Pro Tyr Phe Leu Thr Glu Ala Phe Pro Asp Ser Ser Thr  
20 25 30

Leu Ser His Phe Pro Leu Leu Gln Ala Leu Leu Thr His Gln Leu  
35 40 45

<210> 201  
<211> 37  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (31)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 201  
Met His Ser Ser Ala Glu Thr Leu Leu Cys Trp Pro Leu Phe Val Gly

198 199 200 201

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<210> 202
<211> 41
<212> PRT
<213> Homo sapiens
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<210> 203
<211> 100
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (36)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (47)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (51)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>  
<221> SITE  
<222> (83)  
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 203
Met Gly Met Ile Leu Val Leu Ala Ser Phe Leu Ala His Pro Val Glu
  1          5          10          15
Ala Leu Ala Gln Ala Val Ala Leu Gly Gln Gln Gln Leu Ala Leu Leu
          20          25          30
Gly Val Gln Xaa His Ala Val Glu Gly Phe Leu Gln Leu Gln Xaa Cys
          35          40          45
Phe Ala Xaa Leu Phe Val Phe Glu Gly Ala Leu Leu Ala His Leu Gly
          50          55          60
His Phe Phe Val Glu Pro Gly Ala Ala Gln Gly Gln Leu Leu Asp Leu
  65          70          75          80

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Gly Leu Xaa Arg Arg Glu Leu Gly Phe Gln Phe Ala Leu Leu Ala Arg  
                     85                    90                    95

Phe Val Leu Gln  
                     100

<210> 204  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 204  
 Met Glu Gly Thr Phe Thr Val Trp Ser Gly Gly Leu Ala Val Tyr Val  
   1                    5                    10                    15  
 Trp Ala Val Trp Cys Ser Val His Gly Trp Cys Phe Leu Cys Gly Cys  
                     20                    25                    30

Leu Gln Ser Ala Leu Leu Lys Leu Phe Met  
                     35                    40

<210> 205  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 205  
 Met His Leu Phe Leu Leu Val Lys Phe Trp Asn Leu Trp Thr Gly Gln  
   1                    5                    10                    15  
 Leu Leu Leu Ile Thr Lys Leu Phe  
                     20

<210> 206  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 206  
 Met Glu Val Val Leu Val Leu Leu Ala Ser Ala Cys His Leu Leu Leu  
   1                    5                    10                    15  
 Gly Gly His Thr Thr Val Glu Gly His Ala Ala Trp Arg Trp Pro Gly  
                     20                    25                    30

Trp Pro Cys Cys Pro Gly  
                     35

<210> 207  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 207  
 Met Pro Leu Asp Ala Ala Lys Ser Met Val Val Phe Asn Phe Ala Ile  
   1                    5                    10                    15  
 Leu Leu Phe Phe Leu Pro Asp Pro Gly Met Ser Leu Asp Ile Ala Lys  
                     20                    25                    30

Ile Tyr Phe Cys Ser  
                     35

```

<400> 208
Met  Pro  Tyr  Pro  Leu  Trp  Gln  Trp  Ser  Val  Trp  Met  Leu  Thr  Cys  Ala
  1          5          10          15

Ile  Cys  Pro  Pro  Val  Cys  Ala  Arg  Arg  His  Leu  Ser  Ser  Leu  Leu  Leu
          20          25          30

Ser  Cys  Pro  Lys  Gly  Leu  Gly  Arg  Ala  Ser  Thr
          35          40

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<400> 209
Met Ser Val Phe Ser Gly Cys Arg Leu Val Tyr Ile Ala Ile Ile Phe
 1          5          10          15
Cys Leu Leu Met Phe Asp Leu Ala Leu Asn Gln Leu Phe Leu Val Asn
 20          25          30
Thr Leu Tyr Asn Asn Leu Leu Ser Ser Arg Asp Ser Ser Phe Leu Glu
 35          40          45
Met Asn Phe Ser Tyr Glu
 50

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<400> 210
Met Thr Trp Thr Lys Cys Pro Leu Pro Leu Gly Pro Ala Phe Phe Thr
  1          5          10          15
Gln Cys Cys Leu Ile Gly Leu Leu Val Pro Leu Leu Gly Trp Gly Asn
  20          25          30
Gln Asn Thr Gln Trp Tyr Pro Thr Ser Lys Met Pro Asp Leu Lys Asp
  35          40          45
Ser Lys Thr Thr Asp Leu Cys Gln His Val Lys His Met Val
  50          55          60

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<400> 211
Met  Leu  Arg  Gly  Ala  Ser  Gly  Met  Cys  Arg  Gly  His  Leu  His  Leu  Ile
   1                                10                                15
Val  Phe  Phe  Pro  Val  Leu  Leu  Leu  Ser  His  Pro  Leu  Tyr  Lys  Lys  Trp

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20 25 30  
 Val Leu Thr Trp Ser Leu  
 35

<210> 212  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 212  
 Met Pro Pro Lys Gln Ile Pro Leu Thr Ser Leu Ser Leu Leu Ala Leu  
 1 5 10 15  
 Leu Leu Phe Phe Phe Phe Lys Ile Phe Cys Leu Leu Phe Leu Phe Tyr  
 20 25 30  
 Pro Leu Pro Asp Glu Ser Glu His Phe  
 35 40

<210> 213  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (6)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 213  
 Met Pro Arg Cys Ile Xaa Phe Met Cys Val Leu Leu Leu Pro Ser Gly  
 1 5 10 15  
 Ala Gly Pro Pro Trp Gly Asn Cys Cys Pro Asp  
 20 25

<210> 214  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 214  
 Met Phe Phe Ile Phe Phe Met Leu Ser Ile Gln Ala Leu Phe His Gly  
 1 5 10 15  
 Gln Gln Val Ile Phe His Asn Val Asp Phe Pro Lys  
 20 25

<210> 215  
 <211> 125  
 <212> PRT  
 <213> Homo sapiens

<400> 215  
 Met Ala Thr Pro His Pro His Pro Ala Ala Gln Leu Leu Cys Leu Leu  
 1 5 10 15  
 Phe Cys Leu Pro His Leu Ser Val Ala Val Phe Val Leu Ser Ser Pro  
 20 25 30  
 Ala Pro His Phe Val Lys Trp Pro Leu Gly Glu Cys Phe Cys Trp Ile

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<210> 216
<211> 37
<212> PRT
<213> Homo sapiens

<400> 216
Met Tyr Ser Phe Lys Ala Ala Leu Gly Val Lys His Arg Arg Tyr Met
  1          5          10          15
Gln His Leu Val Ile Ile Ser Ala Leu Phe Cys Ser Leu Leu Gly Thr
          20          25          30
Leu Ile Thr Lys Cys
      35

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<210> 217
<211> 87
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (24)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (30)
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 217
Met Ser His Ser Ala Leu Pro Val Leu Phe Ile Leu Leu Leu Leu Phe
  1          5          10          15
Pro Leu Pro Leu Glu Pro Leu Xaa Cys Glu Ser Cys Thr Xaa Cys Val
          20          25          30
Ser Leu Ser Cys Pro Leu Tyr Ser His Ser Ser Cys Ser Leu Ile His
          35          40          45
Leu Phe Ile Gln His Ile Tyr Phe Glu Arg Leu Ala Gln Cys Gln Ala
  50          55          60
Leu Ser Leu Ile Val Glu Thr His Lys Leu Lys Arg Asp Ser Tyr Pro
  65          70          75          80
Asp Leu Lys Leu Met Thr Ile

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85

<210> 218  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<400> 218  
 Met Arg Leu Trp Leu Gln Glu Cys Leu Cys Phe Leu Leu Leu Ser Ser  
           1                  5                  10                  15  
 His Gln Gly Phe Phe His Leu Asn Leu Val Phe Ile Cys Leu Phe Leu  
                   20                  25                  30  
 Leu His Pro Cys Leu Leu Leu Cys Lys  
                   35                  40

<210> 219  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 219  
 Met Val Leu Lys Gln Lys Gln Tyr Leu Phe Thr Val Gly Ile Leu Phe  
           1                  5                  10                  15  
 Ile Leu Phe Phe Ser Pro Val Asn Ala Val Lys Arg Phe Ile Pro Leu  
                   20                  25                  30  
 Arg Pro Gly Ser Ser Gln Ala Tyr Met Leu Leu Gly  
                   35                  40

<210> 220  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 220  
 Met Met Thr Met Leu Met Ile Leu Ile Val Pro Ala Ile Ala Gln Arg  
           1                  5                  10                  15  
 Lys Val Arg

<210> 221  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<400> 221  
 Met Thr Leu His Ile Leu Leu Asn Leu Leu Tyr Phe Ser Leu Val Ala  
           1                  5                  10                  15  
 Phe Thr Thr Trp Leu Thr Val Tyr Leu Pro Ile Cys Tyr Cys Leu Pro  
                   20                  25                  30  
 Ile Pro Ala Gly Thr Gln Thr Leu Gly Arg Gln Arg Leu Cys Leu Ile  
                   35                  40                  45  
 His Tyr Cys Ile  
           50

<210> 222  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 222  
 Met Gln His Leu Pro Gly Leu Ser Leu His Leu Val Leu Val Phe Leu  
   1                  5                  10                  15  
 Glu Ser Leu Gly Ser Cys Ala Thr Pro His Pro Arg Ala Ala Pro Ala  
                   20                  25                  30  
 Ala Lys Lys Lys Lys Lys Lys Lys  
           35                  40

<210> 223  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 223  
 Met Leu Ala Val Leu Phe Phe Ser Ser Tyr Ser Leu Gly Glu Leu Ala  
   1                  5                  10                  15  
 His Ser Leu Gly Leu Asn Cys Thr Phe Ile  
                   20                  25

<210> 224  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 224  
 Met Leu Phe Leu Phe Gln Ile Ser Ser Leu Val Gly Leu Phe Ser Ala  
   1                  5                  10                  15  
 Thr Leu Leu Gly Val Phe Gly Asn  
                   20

<210> 225  
 <211> 198  
 <212> PRT  
 <213> Homo sapiens

<400> 225  
 Met Ala Ala Leu Thr Ala Glu His Phe Ala Ala Leu Gln Ser Leu Leu  
   1                  5                  10                  15  
 Lys Ala Ser Ser Lys Asp Val Val Arg Gln Leu Cys Gln Glu Ser Phe  
                   20                  25                  30  
 Ser Ser Ser Ala Leu Gly Leu Lys Lys Leu Leu Asp Val Thr Cys Ser  
                   35                  40                  45  
 Ser Leu Ser Val Thr Gln Glu Glu Ala Glu Glu Leu Leu Gln Ala Leu  
                   50                  55                  60  
 His Arg Leu Thr Arg Leu Val Ala Phe Arg Asp Leu Ser Ser Ala Glu  
                   65                  70                  75                  80  
 Ala Ile Leu Ala Leu Phe Pro Glu Asn Phe His Gln Asn Leu Lys Asn  
                   85                  90                  95

Leu Leu Thr Lys Ile Ile Leu Glu His Val Ser Thr Trp Arg Thr Glu  
                   100                                  105                                  110  
 Ala Gln Ala Asn Gln Ile Ser Leu Pro Arg Leu Val Asp Leu Asp Trp  
                   115                                  120                                  125  
 Arg Val Asp Ile Lys Thr Ser Ser Asp Ser Ile Ser Arg Met Ala Val  
                   130                                  135                                  140  
 Pro Thr Cys Leu Leu Gln Met Lys Ile Gln Glu Asp Pro Ser Leu Cys  
                   145                                  150                                  155                                  160  
 Gly Asp Lys Pro Ser Ile Ser Ala Val Thr Val Glu Leu Ser Lys Glu  
                                   165                                  170                                  175  
 Thr Leu Asp Thr Met Leu Asp Gly Leu Gly Arg Ile Arg Asp Gln Leu  
                   180                                  185                                  190  
 Ser Ala Val Ala Ser Lys  
                   195

<210> 226  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 226  
 Leu Glu Leu Trp Leu Phe Ile Phe Ile Leu Pro Phe Leu Phe Leu Gly  
   1                                  5                                  10                                  15  
 Lys Arg Gln Gly Leu Ala Phe Cys Pro  
                   20                                  25

<210> 227  
 <211> 70  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (67)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 227  
 Met Val Ser Phe Val Gly Ile Cys Leu Leu Leu Gly Ser Phe Phe Ser  
   1                                  5                                  10                                  15  
 Pro Ser Leu Gln Gly Thr Ile Trp His His Pro Ala Lys Pro Asp Gly  
                   20                                  25                                  30  
 Ser Gly His Gly Leu Pro Ser Phe Ala Val Ile Met Gly Lys Gln Val  
                   35                                  40                                  45  
 Val Pro Thr Val Tyr Trp Arg Met Pro Tyr Pro Arg Arg Gly Gly Pro  
   50                                  55                                  60  
 Gly Thr Xaa Phe Ala Leu  
   65                                  70

<210> 228  
 <211> 26  
 <212> PRT

<213> Homo sapiens

<400> 228

Met Val Leu Val Leu Thr Thr Leu Ser Leu Leu Pro Leu Leu Ile Ser  
1 5 10 15

Pro Cys Asn Tyr Glu Ile Asn Phe Ser Leu  
20 25

<210> 229

<211> 79

<212> PRT

<213> Homo sapiens

<400> 229

Met Gly Leu Cys Glu Ala Ser Cys Ser Ser Leu Asp Asn Ala Leu Pro  
1 5 10 15

Val His Ser Val Leu Val Val Ser Val Ser Ser Ser Val Phe Thr Gly  
20 25 30

Leu Gly Ser Cys Tyr Ser Pro Cys Leu Phe Pro Glu Cys Leu Arg Val  
35 40 45

Thr Glu Met Lys Lys Pro Leu Gly Ser Arg Lys Cys Gly Leu Ala Leu  
50 55 60

Ile Trp Phe Gly Phe Val Ser Pro Pro Lys Ser His Leu Glu Leu  
65 70 75

<210> 230

<211> 45

<212> PRT

<213> Homo sapiens

<400> 230

Met Gln Leu Leu Gln Leu Ser Phe Gln Leu Leu Val Ser Leu Ile Leu  
1 5 10 15

Pro Thr Ile Tyr Thr Leu Pro Gln Phe Gln Ile Trp Lys Gln Val Pro  
20 25 30

Asp Ile Asn Ile Ile Ser Ser Ser Thr Phe Gln Tyr Ala  
35 40 45

<210> 231

<211> 105

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (96)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (104)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 231

Met Val Leu Val Ile Ser Leu Ala Ala Gln Val Gln Ser Pro Arg Arg  
1 5 10 15

Ala Gly Pro Ile Thr Gly Pro Leu Pro Leu Pro Leu Leu Leu Leu Leu  
                   20                                  25                                  30  
 Pro Phe Gly Pro Pro Pro Pro Ala Lys Pro Ala Pro Glu Ala Ala Leu  
                   35                                  40                                  45  
 Pro Ser Ala Ala Thr Arg Gly Arg Ala Gly Ala Leu Arg Ala Leu Glu  
                   50                                  55                                  60  
 Pro Ala Asp Pro Ala Ser Val Ser Trp Glu Gly Pro Ala Pro Ala Gln  
                   65                                  70                                  75                                  80  
 Ser Thr His Gly Asn Lys Gly Gln Ala Ala Thr Val Lys Lys Lys Xaa  
                                   85                                  90                                  95  
 Lys Lys Lys Arg Ala Ala Ala Xaa Lys  
                   100                                  105

<210> 232  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 232  
 Met Ser Leu Gln Ser Arg Gly Ser Asn  
       1                                  5

<210> 233  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens  
 <220>  
 <221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (48)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 233  
 Met Gly Phe Ser Xaa Val Gly Cys Gly Arg Gly Asp Asp Ala Leu Phe  
       1                                  5                                  10                                  15  
 Leu Ile Phe Asp Leu Phe Phe Gln Leu Asp Phe Phe Pro Gly Leu Phe  
                   20                                  25                                  30  
 Leu Gly Pro Ala Ala Phe Val Ile Pro Arg Pro Gly Pro Arg Pro Xaa  
                   35                                  40                                  45  
 Thr Ser Ser Ala Gly Ala Pro Pro Ala Val Gly Ser Gly Cys Asp Arg  
                   50                                  55                                  60  
 Ala Glu Val Leu Ser Gly Thr Leu Gly Ser Gln Pro Gly Asp Ser Glu  
                   65                                  70                                  75                                  80  
 Pro Arg Gly Arg

<210> 234

<211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 234  
 Met Lys Leu Ser Val Pro Leu Leu Ile Val Pro Leu Leu Met Trp Asn  
     1                    5                    10                    15  
 Ser Asn Trp Ile  
                     20

<210> 235  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (33)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (35)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 235  
 Met Arg Thr Pro Pro Ser Pro Gly Pro Arg Thr His Leu Val Leu Val  
     1                    5                    10                    15

Leu Leu Gln Pro Leu Ser Gln Arg Gly Gln His Asp Leu Gly Gly Arg  
                     20                    25                    30

Xaa Xaa Xaa Val Ala  
                     35

<210> 236  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 236  
 Met Val Ala Val Thr Leu Val Leu Gly Ala Gly Asp Phe Ala Leu Thr  
     1                    5                    10                    15

Leu Gly Gly Phe Thr Leu Gly Gly Ile Gly Thr Ala Thr Phe Gly Ala  
                     20                    25                    30

Ile Leu Leu Asn Ala Leu Leu Ser Arg Lys Leu Val Asp Val Pro Pro  
                     35                    40                    45

Pro Glu Val Val His Gln Glu Pro  
     50                    55

<210> 237  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 237  
 Met Pro Tyr Asn Ile Gly Tyr Xaa Thr Phe Tyr Phe Ile Leu Phe Tyr  
   1                  5                  10                  15  
 Phe Ile Leu Phe Tyr Leu Glu Thr Arg Ser Cys Ser Val Thr Gln Ala  
           20                  25                  30  
 Arg Gly

<210> 238  
 <211> 113  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (27)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (103)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 238  
 Gly Arg Gly Leu Ser Ser Leu Thr Pro Tyr Ile Val Leu Cys Val Phe  
   1                  5                  10                  15  
 Ile Met Leu Ser Cys Glu Thr Asp Ser Leu Xaa Val Trp Arg Ser Ile  
           20                  25                  30  
 Gln Val Met Ile Pro Gly Arg Ala Arg Trp Leu Thr Pro Val Ile Pro  
           35                  40                  45  
 Lys Cys Trp Asp Arg Arg Arg Glu Ser Pro Arg Pro Val Lys Thr Val  
           50                  55                  60  
 Leu Leu Lys Gly Cys Leu Pro Ser Gly Gly Cys Gln Ser Pro Gly Thr  
   65                  70                  75                  80  
 Pro Pro Gly Val Ser Ala Phe Ile Pro Ser Cys Gly Arg Lys Cys Ser  
           85                  90                  95  
 Val Arg Asn Arg Ile Leu Xaa Val Arg Leu Ser Ala Gly Tyr Arg Met  
           100                  105                  110  
 Gly

<210> 239  
 <211> 82  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 239  
 Met Glu Asp Thr Asp Asp Ser Leu Val Leu Val Phe Leu Ser Ala Val  
   1                  5                  10                  15

Asn Val Gln Gln Phe Ala Gln Glu Leu Gly Asp His Ile Cys Leu Ser  
                   20                  25                  30  
 Gly Gln Gly Ser Glu Val His Trp Asn Leu Leu Arg Asn Leu Phe Val  
                   35                  40                  45  
 Lys Thr Ile Val Asn Asn Tyr Cys Ile Phe Leu Gln Lys Tyr Ile Leu  
           50                  55                  60  
 Glu Asn Cys Ile Leu Ser Ile Lys Val Phe Leu Cys Lys Lys Lys Lys  
   65                  70                  75                  80  
 Lys Lys

<210> 240  
 <211> 92  
 <212> PRT  
 <213> Homo sapiens

<400> 240  
 Pro Asn Leu Leu Phe Gln Thr Leu Leu Leu His Pro Phe Ser Thr Ile  
   1                  5                  10                  15  
 Ile Ser Thr Ser His Thr Val Leu Leu Asp Ile His Lys Glu Gln His  
                   20                  25                  30  
 Ala Phe Leu Cys Leu Gly His Asp Ile Phe Ser Ser Met His Leu Leu  
                   35                  40                  45  
 Phe Asn Ser Leu Phe Cys Leu Ile Ser Lys Cys Leu Leu Ile Ala Cys  
                   50                  55                  60  
 Asn Met Pro Cys Pro Val Leu Gly Ser Glu Ser Ile Lys Ile Asn Lys  
   65                  70                  75                  80  
 Gln Asp Pro Asp Met Gln Gly Asp His Asn Leu Val  
                   85                  90

<210> 241  
 <211> 92  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (59)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 241  
 Met Ala Ile Arg Cys Cys Ser Ser Thr Ser Asn Ala Leu Ile Leu Ile  
   1                  5                  10                  15  
 Leu Phe Thr Trp Thr Val Leu Leu His His Pro Arg Ser Ser Ser Phe  
                   20                  25                  30  
 Leu Pro Ser Phe Lys Lys Pro Ser Trp Thr Ser Pro Leu Gly Tyr Ala  
                   35                  40                  45  
 Ile Ile Ala Thr Pro Cys Asn Ser Leu Ser Xaa His Leu Ser Cys Tyr  
   50                  55                  60  
 Ile Glu Leu Ser Val Ser Leu Thr Glu Cys Glu Pro Ala Leu Lys Leu



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65              70              75              80
Glu Val Arg Leu Gln Ala Gly Gly Ile Val Leu Gly
      85              90

<210> 242
<211> 28
<212> PRT
<213> Homo sapiens

<400> 242
Met Leu Ile Phe Ile Leu Leu Ala Thr Asn Leu Phe Val Ser Ser Leu
 1              5              10              15
Phe Glu Ile Leu Met Tyr Arg Ser Phe Gln Asn Asn
      20              25

<210> 243
<211> 32
<212> PRT
<213> Homo sapiens

<400> 243
Met Leu Gly Phe Phe Ser Pro Ile Phe Pro His Leu His Leu Phe Phe
 1              5              10              15
Pro Thr Ala Tyr Ser Trp Arg Glu Arg Ser Arg Gln Glu Phe Ala Ile
      20              25              30

<210> 244
<211> 42
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (9)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (15)
<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE
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<221> SITE
<222> (28)
<223> Xaa equals any of the naturally occurring L-amino acids

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<221> SITE  
 <222> (29)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (30)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (40)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 244  
 Met Leu Phe Leu Val Phe Ser Leu Xaa Leu Leu Lys Pro Leu Xaa Phe  
   1                  5                  10                  15  
 Phe Xaa Phe Gly Gly Xaa Arg Ile Val Asn Ile Xaa Xaa Xaa Gln Xaa  
                   20                  25                  30  
 Gln His His Ala Glu Gly Lys Xaa Gly Ser  
           35                  40

<210> 245  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 245  
 Met Leu Thr Gln Asn Gly Leu Phe Val Phe Phe Phe Phe Gly Phe  
   1                  5                  10                  15  
 Gln Ser Ser Cys Lys His Ala Lys Lys Lys Lys  
           20                  25

<210> 246  
 <211> 123  
 <212> PRT  
 <213> Homo sapiens

<400> 246  
 Met Gly Gly Tyr Tyr Cys Asn Val Cys Asp Cys Val Val Lys Asp Ser  
   1                  5                  10                  15  
 Ile Asn Phe Leu Asp His Ile Asn Gly Lys Lys His Gln Arg Asn Leu  
           20                  25                  30  
 Gly Met Ser Met Arg Val Glu Arg Ser Thr Leu Asp Gln Val Lys Lys  
           35                  40                  45  
 Arg Phe Glu Val Asn Lys Lys Lys Met Glu Glu Lys Gln Lys Asp Tyr  
           50                  55                  60  
 Asp Phe Glu Glu Arg Met Lys Glu Leu Arg Glu Glu Glu Lys Ala  
   65                  70                  75                  80  
 Lys Ala Tyr Lys Lys Glu Lys Gln Lys Glu Lys Lys Arg Arg Ala Glu  
           85                  90                  95

Glu Asp Leu Thr Phe Glu Glu Asp Asp Glu Met Ala Ala Val Met Gly  
 100 105 110

Phe Ser Gly Phe Gly Ser Thr Lys Lys Ser Tyr  
 115 120

<210> 247  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 247  
 Met Arg His Arg Ala Arg Arg Phe Phe Phe Phe Phe Phe Leu Ser Gly  
 1 5 10 15

Ile Trp Ala Gly His Gly Gly Ser Cys Leu  
 20 25

<210> 248  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 248  
 Met Phe Pro Arg Val Glu Phe Phe Phe Leu Leu Arg Thr Ser Val Ala  
 1 5 10 15

Leu Pro Ala Leu Ala Leu Ser Gly Lys Asp Ser Arg Gly Asp Thr Ala  
 20 25 30

Val Pro Gly Cys Asp Asn Val Gln  
 35 40

<210> 249  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 249  
 Met Arg Val Ala Phe Ile Leu Phe Phe Phe Phe Lys Leu Thr Pro Ser  
 1 5 10 15

Phe Thr Pro Ser Ser Ile Ser Gly Tyr Arg Ile Arg Asp Ala Ala Val  
 20 25 30

Thr Asn Gly Ile Leu Thr Cys Lys Ile Val  
 35 40

<210> 250  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 250  
 Met Val Leu Ser Ala Cys Pro Asn Tyr Val Leu Pro Leu Pro Phe Leu  
 1 5 10 15

Leu Ile Thr Leu Lys Cys Asp Gly Thr Thr Thr Glu Ala Val Cys  
 20 25 30

<210> 251  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<400> 251  
 Met Pro Thr Phe Pro Lys Ser Gln Asn Val Leu Pro Phe Leu Ser Met  
           1                  5                  10                  15  
 Leu Leu Ser Ala Thr Leu Trp Ser Gln Ser Pro Leu Cys Asp Thr Leu  
                   20                  25                  30  
 Ile Lys Asp Lys Ala Lys Ser Gln Ser Asp Lys Arg Thr Arg Asp Glu  
           35                  40                  45  
 Lys Leu Gly Lys Ile Glu Phe  
           50                  55

<210> 252  
 <211> 48  
 <212> PRT  
 <213> Homo sapiens

<400> 252  
 Met Phe Leu Ile Leu Val Ala Phe Ile Ser Gly Val Ser Pro Ser Phe  
           1                  5                  10                  15  
 Val His Ile Ser Val Ser Gly Leu His Cys Lys Ile Ser Leu Thr Ile  
                   20                  25                  30  
 Val Ala Phe Pro Phe Ser Thr Ala Gln Tyr Lys Ala Val Leu Leu Ser  
           35                  40                  45

<210> 253  
 <211> 72  
 <212> PRT  
 <213> Homo sapiens

<400> 253  
 Met Leu Trp Met Thr Ser Glu Tyr Met Asn Leu Leu Leu Phe Gln Met  
           1                  5                  10                  15  
 Phe Leu Val Phe Pro Gly Ser Gln Ala Gly Leu Phe Gln Pro Leu Ile  
                   20                  25                  30  
 Val Tyr Arg Gly Lys Ile Cys Thr Val Gln Cys Met Lys Leu Phe Ser  
           35                  40                  45  
 Thr Ser Leu Pro Ser Ser Lys Thr Ile Gln Ser Glu Leu Ser Trp Ala  
           50                  55                  60  
 Lys Gln Tyr Ile Arg Val Lys Phe  
           65                  70

<210> 254  
 <211> 342  
 <212> PRT  
 <213> Homo sapiens

<400> 254

[illegible]



&lt;400&gt; 257

Met Cys Leu Ser Leu Thr Ser Ile His Ile His Pro Thr Ser Leu Leu  
 1 5 10 15

Leu Gln Ser Phe Ile Val Ile Phe Ser Leu Met Leu Glu Ser Phe Ala  
 20 25 30

Phe Ser Ser Cys Ser His Cys Leu Lys Phe Cys Glu Leu Leu Arg Lys  
 35 40 45

Ser Leu Val Lys Val  
 50

&lt;210&gt; 258

&lt;211&gt; 188

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 258

Val Leu Gly Ala Ala His Pro Val Pro Pro Gly Leu Pro Leu Phe Leu  
 1 5 10 15

Pro Tyr Tyr Ile Cys Val Ala Asp Glu Asp Asp Tyr Arg Asp Phe Val  
 20 25 30

Asn Leu Asp His Ala His Ser Leu Leu Arg Asp Tyr Gln Gln Arg Glu  
 35 40 45

Gly Ile Ala Met Asp Gln Leu Leu Ser Gln Ser Leu Pro Asn Asp Gly  
 50 55 60

Asp Glu Lys Tyr Glu Lys Thr Ile Ile Lys Ser Gly Asp Gln Thr Phe  
 65 70 75 80

Tyr Lys Phe Met Lys Arg Ile Ala Ala Cys Gln Glu Gln Ile Leu Arg  
 85 90 95

Tyr Ser Trp Ser Gly Glu Pro Leu Phe Leu Thr Cys Pro Thr Ser Glu  
 100 105 110

Val Thr Glu Leu Pro Ala Cys Ser Gln Cys Gly Gly Gln Arg Ile Phe  
 115 120 125

Glu Phe Gln Leu Met Pro Ala Leu Val Ser Met Leu Lys Ser Ala Asn  
 130 135 140

Leu Gly Leu Ser Val Glu Phe Gly Thr Ile Leu Val Tyr Thr Cys Glu  
 145 150 155 160

Lys Ser Cys Trp Pro Pro Asn His Gln Thr Pro Met Glu Glu Phe Cys  
 165 170 175

Ile Ile Gln Glu Asp Pro Asp Glu Leu Leu Phe Lys  
 180 185

&lt;210&gt; 259

&lt;211&gt; 45

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 259

Met Lys Lys Ile Ile Glu Thr Val Ala Glu Gly Gly Gly Glu Leu Gly  
 1 5 10 15

Val His Met Tyr Leu Leu Ile Phe Leu Lys Phe Val Gln Ala Val Ile  
                   20                                  25                                  30

Pro Thr Ile Glu Tyr Asp Tyr Thr Arg His Phe Thr Met  
                   35                                  40                                  45

<210> 260

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 260

Met Pro Ile Cys Glu His Phe Ile Trp Pro Leu Leu Ala Phe Ile Pro  
   1                                  5                                  10                                  15

Gln Xaa Leu Ser Ser Gly Leu Arg Val Phe Leu Ser Phe Thr Gln Gln  
                   20                                  25                                  30

Asn His Gln Glu Arg Asp Phe Lys Arg Asp Tyr Gln Ala  
                   35                                  40                                  45

<210> 261

<211> 16

<212> PRT

<213> Homo sapiens

<400> 261

Met Ser His Arg Ala Arg Pro Met Ile Leu Phe Phe Phe Phe Phe  
   1                                  5                                  10                                  15

<210> 262

<211> 18

<212> PRT

<213> Homo sapiens

<400> 262

Met Leu Thr Leu Val Ser Phe Val Phe Leu Leu Leu Leu Leu Glu Ser  
   1                                  5                                  10                                  15

Met Ile

<210> 263

<211> 4

<212> PRT

<213> Homo sapiens

<400> 263

Met Leu Lys Ser  
   1

<210> 264

<211> 97



<213> Homo sapiens

Met Tyr His His Asp Trp Leu Ile Phe Val Phe Leu Val Lys Thr Gly  
1 5 10 15

Phe His His Val Gly Gln Ala Gly Leu Glu Phe Leu Thr Ser Ser Asp  
20 25 30

Pro Pro Ala Phe Gly Leu Pro Lys Cys Trp Asp Tyr Lys Arg Glu Pro  
35 40 45

Pro Arg Pro Ala Arg Met Leu Val Phe Leu Leu Ser Cys Arg Asn Ser  
50 55 60

Phe Tyr Ile Pro Asp Ala Asn Ser Phe Ser Asn Ile Cys Phe Ala Asn  
65 70 75 80

Ser Ser Phe Gln Ser Ile Ala Gly Leu Cys Met Val Phe Phe Phe Phe  
85 90 95

Phe

<211> 49

<213> Homo sapiens

Met Ala Ala Leu Leu Leu Thr Leu Ile Leu Gly Thr Leu His Gln Gln  
1 5 10 15

Lys Gly Leu His Val Gln Ser Pro Ile Pro Ser Pro Ser Gly Arg Lys  
20 25 30

His Ile Leu Arg Met Ala Thr Leu Arg Leu Arg Glu Val Lys Val Pro  
35 40 45

Ala

<211> 43

<213> Homo sapiens

Met Leu Ser Phe Gln Lys Ala Ile Leu Phe Leu Ala Met Gly Cys Leu  
1 5 10 15

Pro Cys Ile Pro Gln Gly Leu Ser Cys Ala Phe His Pro Ala Ser Phe  
20 25 30

His Lys Ala Leu Ser Gly Cys Arg Thr Leu Ile  
35 40

<211> 43

<213> Homo sapiens

&lt;400&gt; 267

Met Gly Lys Lys Ser Ser Thr Ser Phe Tyr Leu Leu Leu Leu Cys Val  
1 5 10 15Leu Lys Thr Ala Leu Leu Lys Cys Ile His Gln Pro Gly Gln Gly Gly  
20 25 30Lys Thr Pro Ser Leu Gln Asn Ile Phe Lys Asn  
35 40

&lt;210&gt; 268

&lt;211&gt; 18

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 268

Leu Val Leu Gln Leu Leu Leu Leu Gln Gln Ala Ala Gln Ala Asn Arg  
1 5 10 15

Leu Leu

&lt;210&gt; 269

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 269

Met Ala Cys Cys Asn Pro Tyr Lys Tyr Tyr Phe Tyr Leu Ser Cys Ser  
1 5 10 15Val Cys Phe Leu  
20

&lt;210&gt; 270

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 270

Met His Lys Ile Gly His Cys Phe Met Ser Leu Phe Ser Ile Lys Lys  
1 5 10 15His Thr Tyr Asp Asp Cys Lys Met Lys  
20 25

&lt;210&gt; 271

&lt;211&gt; 148

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (47)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 271

Met Gly Leu Phe Gly Lys Thr Gln Glu Lys Pro Pro Lys Glu Leu Val  
1 5 10 15Asn Glu Trp Ser Leu Lys Ile Arg Lys Glu Met Arg Val Val Asp Arg  
20 25 30

P00001: 0000000000

Gln Ile Arg Asp Ile Gln Arg Glu Glu Glu Lys Val Lys Arg Xaa Cys  
                   35                  40                  45

Glu Arg Cys Cys Gln Glu Gly Pro Glu Gly Cys Leu His Ser Ser Gly  
           50                  55                  60

Gln Gly Asp Asp Gln Val Lys Glu Gly Cys Glu Gln Ala Val Cys Ile  
       65                  70                  75                  80

Gln Ser Thr His Glu Leu Ser Ala His Gly Asp Glu Glu Pro Ala Arg  
                   85                  90                  95

Gly Leu Ala Ser Gly Trp Phe Pro Ala Glu Glu His Arg Ser Asp Glu  
                   100                  105                  110

Gly His Ala Lys Ser Cys Glu Asp Ser Arg Asp Ser Gly His His Glu  
           115                  120                  125

Gly Val Val Gln Arg Asn Asp Glu Gly Trp Asp His Arg Gly Asp Val  
       130                  135                  140

Arg Gly His Phe  
 145

<210> 272

<211> 21

<212> PRT

<213> Homo sapiens

<400> 272

Met Leu Leu Ser Asn Leu Val Val Ser Ala Leu Tyr Asn Pro Val Leu  
   1                  5                  10                  15

Gly Leu Ser Cys Phe  
                   20

<210> 273

<211> 34

<212> PRT

<213> Homo sapiens

<400> 273

Met Thr Leu Tyr Leu Cys Leu Leu Phe Pro Tyr Phe Thr Phe Phe Pro  
   1                  5                  10                  15

Leu Ser Ala Leu Leu Pro Arg Asp Cys Thr Pro Gln Gln Ile Ile Asn  
           20                  25                  30

Tyr His

<210> 274

<211> 40

<212> PRT

<213> Homo sapiens

<400> 274

Met Ser Pro Phe Asn Cys Cys Pro Phe Asn Tyr Thr Leu Ile Tyr Ile  
   1                  5                  10                  15

Ile Leu Leu Met Leu Ile Tyr Val Tyr Ile Ser Ser Val His Ser Leu  
           20                  25                  30

His Pro Ser Pro Met Trp Cys Ala Gln  
35 40

<210> 279  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<400> 279  
 Met Thr Gly Thr Cys His His Ser Leu Phe Ser Phe Leu Ile Phe Ser  
           1                  5                  10                  15  
 Phe Phe Leu Ala Ile Gly Ser Pro Phe Val Ala Gln Val Gly Leu Glu  
                   20                  25                  30  
 Leu Leu Gly Ser Asn Asp Pro Leu Ala Ser Ala Ser Gln Ser Val Arg  
           35                  40                  45  
 Ile Thr Gly Met Ser Tyr Cys Ala Trp Pro Lys Ser Tyr Ser Tyr His  
           50                  55                  60

<210> 280  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<400> 280  
 Met Val Ser Ser Cys Trp Pro Gly Trp Ser Pro Ser Leu Asp Leu Val  
           1                  5                  10                  15  
 Ile Leu Ala Leu Trp Glu Ala Lys Ala Gly Gly Ser Phe Glu Leu Arg  
                   20                  25                  30  
 Ser Ser Arg Pro Pro Ser Gln His Asn Glu Ser Thr Leu Glu Ala Arg  
           35                  40                  45  
 Ser Gly Trp Ile Thr Arg Ser Gly Asp Arg Asp His Pro Gly  
           50                  55                  60

<210> 281  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 281  
 Met Lys Val Asn Leu Asn Ile Asn Leu Leu Ile Ile Lys Ser Leu Ser  
           1                  5                  10                  15  
 Ala Ser Ala Gly Ala Met Asn Ser Glu Trp Glu Ile Ala Ser Gly Glu  
                   20                  25                  30  
 Trp

<210> 282  
 <211> 170  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (14)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (95)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (146)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (158)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 282  
 Met Asn His Pro Pro Glu Gly Ser Thr Val Val Phe Phe Xaa Leu Phe  
 1 5 10 15  
 Phe Phe Phe Glu Thr Val Leu Leu Cys Cys Pro Gly Trp Ser Ala Val  
 20 25 30  
 Val Gln Ser Arg Leu Ala Ala Thr Ser Ala Ser Trp Phe Lys Arg Phe  
 35 40 45  
 Ser Phe Leu Ser Leu Leu Ser Ser Trp Glu Tyr Gly Cys Ala Pro Pro  
 50 55 60  
 Arg Leu Ala Asn Phe Cys Ile Phe Ser Arg Asp Gly Val Ser Pro Cys  
 65 70 75 80  
 Trp Pro Gly Trp Ser Arg Met Pro Asp Leu Val Val His Pro Xaa Arg  
 85 90 95  
 Pro Pro Lys Val Leu Gly Leu Gln Val Cys Ala Ala Ala Pro Gly Gln  
 100 105 110  
 Ala Phe Phe Ser Leu Gly Leu Leu Trp Pro Pro Arg Leu Gly Thr Arg  
 115 120 125  
 Gly Pro Pro Gly Thr Gly Ile Pro Ser Cys Thr Leu Ile His Gly Ala  
 130 135 140  
 Leu Xaa Glu Met Gln Val Leu Gln Gly Thr Gly Phe His Xaa Phe Trp  
 145 150 155 160  
 Gly Asp Gln Pro Ser Ser Pro Arg Ile Pro  
 165 170

<210> 283  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (4)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (10)  
 <223> Xaa equals any of the naturally occurring L-amino acids

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<220>
<221> SITE
<222> (19)
<223> Xaa equals any of the naturally occurring L-amino acids
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<210> 284
<211> 50
<212> PRT
<213> Homo sapiens
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<210> 285
<211> 30
<212> PRT
<213> Homo sapiens
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<210> 286
<211> 7
<212> PRT
<213> Homo sapiens
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<210> 287
<211> 83
<212> PRT
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<400> 287

Trp Leu Leu Leu Cys Ala Gln Ile Met Cys Leu Glu Ala Phe Leu Gln  
20 25 30

Glu Ser Leu Ala Glu Gln Leu Thr Leu Ser Lys His Cys Arg Trp Pro  
50 55 60

Leu Phe Leu Pro Gly Ser Ser Ser Trp Glu Leu Ser Ala Pro Gly Lys  
65 70 75 80

Phe Trp Gln

<210> 288

<211> 32

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$ 

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

 $\langle 220 \rangle$ 

&lt;221&gt; SITE

$\langle 222 \rangle$  (20)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 288

Met Lys Arg Tyr Asn Ser Leu Gln Arg Thr Gln Leu Val Leu Leu Ala  
1 5 10 15

Leu Arg Xaa Xaa Thr Val Ser Ala Ser Ser Ser Cys Ser Leu Ser Ser  
20 25 30

<210> 289

<211> 130

<212> PRT

<213> Homo sapiens

 $\langle 220 \rangle$ 

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 289

Met Arg Tyr Asn Glu Lys Glu Leu Gln Ala Leu Ser Arg Gln Pro Ala  
1 5 10 15

Glu Met Ala Ala Glu Leu Gly Met Arg Gly Pro Lys Lys Gly Xaa Asp  
20 25 30

Glu Ala Glu Pro Val Gly Ala Leu Leu Leu Glu Arg Cys Arg Val Val



35                      40                      45  
 Arg Glu Glu Pro Gly Thr Phe Ser Ile Ser Phe Ile Glu Asp Pro Glu  
     50                      55                      60  
 Arg Lys Tyr His Phe Glu Cys Ser Ser Glu Glu Gln Cys Gln Glu Trp  
     65                      70                      75                      80  
 Met Glu Ala Leu Arg Arg Ala Ser Tyr Glu Phe Met Arg Arg Ser Leu  
                     85                      90                      95  
 Ile Phe Tyr Arg Asn Glu Ile Arg Lys Val Thr Gly Lys Asp Pro Leu  
                     100                      105                      110  
 Glu Gln Phe Gly Ile Ser Glu Glu Ala Arg Phe Gln Leu Ser Gly Leu  
                     115                      120                      125  
 Gln Ala  
     130

<210> 290  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 290  
 Gly Ser Arg Trp Ala Ala Leu Gln Ala Gly Pro Leu Trp Pro Ser Ile  
     1                      5                      10                      15  
 Gly Phe Val Val Asn Met Leu Cys Gly Val Thr Thr Ser Asn Gly Gly  
                     20                      25                      30  
 Pro Asn Thr Tyr Ile His Leu  
                     35

<210> 291  
 <211> 7  
 <212> PRT  
 <213> Homo sapiens

<400> 291  
 Ile Phe Ile Tyr Leu Leu Met  
     1                      5

<210> 292  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<400> 292  
 Met Lys Ala Leu Arg Leu Ser Ala Ser Ala Leu Phe Cys Leu Leu Leu  
     1                      5                      10                      15  
 Ile Asn Gly Leu Gly Ala Ala Pro Pro Gly Arg Pro Glu Ala Gln Leu  
                     20                      25                      30  
 Leu Leu Ser Ala Leu Ser Ile Lys Ser Arg  
                     35                      40

<210> 293  
 <211> 41  
 <212> PRT

<213> Homo sapiens

<400> 293

Met Arg Gly Lys Phe Pro His Asp Leu Leu Cys Phe Leu Ile Lys Leu  
1 5 10 15

Leu Cys Pro Thr Ile Ala Gly Ser Ala Tyr Gly Cys Cys Asn Val Gly  
20 25 30

Ser Ala Val Ser Cys Ser Tyr His Phe  
35 40

<210> 294

<211> 21

<212> PRT

<213> Homo sapiens

<400> 294

Phe Ile Pro Asp Lys Arg Arg Pro Thr Leu Met Leu Gly Ile Leu Pro  
1 5 10 15

Ser Leu Pro Val Pro  
20

<210> 295

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (2)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 295

Met Xaa Phe Phe Ala Val Leu Ser Ser Phe Pro Ser Arg Gly Lys Arg  
1 5 10 15

Ala Glu Ala Gln Gln Ser Leu Val Cys Trp Arg Asn Arg Arg Val Val  
20 25 30

Gly Gly Leu Glu Ala Arg Ala Val Lys  
35 40

<210> 296

<211> 49

<212> PRT

<213> Homo sapiens

<400> 296

Met Cys His Leu Cys Val His Val Gly Leu Leu Val Ser Leu Phe Pro  
1 5 10 15

Ser Gln Ala Ala Gly Phe Val Trp Met Arg Met Ala Pro Phe Leu Phe  
20 25 30

Thr Asp Arg Tyr Ser Val Pro Ser Thr Val Pro Gly Thr Gln Glu Val  
35 40 45

Leu

<210> 297  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 297  
 Gly Asp Trp Ala Phe Leu Phe Trp Met Trp Leu Ala Gly Ala Ala Leu  
           1                  5                  10                  15  
 Gly Ser Pro Ala  
                   20

<210> 298  
 <211> 65  
 <212> PRT  
 <213> Homo sapiens

<400> 298  
 Met Gly Ala Gln Gly Gly Pro Pro Glu Glu Pro Leu Phe Tyr Val Ala  
           1                  5                  10                  15  
 Leu Val Val Phe His Gly Trp Cys Ser Gly Ser Pro Tyr Gln Glu Glu  
                   20                  25                  30  
 Ala Pro Pro Cys Glu Gly Gly Gly Pro Glu Gly Gly Pro Arg Lys Pro  
                   35                  40                  45  
 Asp Gln Glu Pro Gly Asn Gln Val Gln Asp Leu Pro Gly His Ala Arg  
           50                  55                  60  
 Val  
           65

<210> 299  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE.  
 <222> (11)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 299  
 Met Val Leu His Cys Ile Ala Trp Leu Gln Xaa Gly Ile Ser Phe Leu  
           1                  5                  10                  15  
 Phe Leu Phe Leu Cys Val Ile Ala Ile Gly Ala Thr Asn Phe Ala Ser  
                   20                  25                  30  
 Pro Xaa Phe Tyr Lys Leu Val Ser Ser Gly Val Ala  
                   35                  40

<210> 300  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 300

Met Gly Ile Gln Leu Ala Leu Ala Pro Ala Leu Ser Trp Gly Cys Ser  
 1 5 10 15

Ser Ala Ser Cys Pro Val Cys Cys Gly Lys Thr Glu Pro Leu Val Arg  
 20 25 30

Leu Ala Arg Arg Arg Arg Ser Arg Arg Gln Ala Ala Gln Ile Trp Glu  
 35 40 45

Leu Ser Ala Ile Val Pro Ser Val  
 50 55

&lt;210&gt; 301

&lt;211&gt; 36

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (32)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 301

Met Pro His Leu Phe Phe Leu Phe Leu Ser Thr Asn His Phe Leu Leu  
 1 5 10 15

Ser Thr Pro Tyr Leu Ile Ser Leu Ile Thr Gly Pro Pro Asn Ser Xaa  
 20 25 30

Leu Arg Gln His  
 35

&lt;210&gt; 302

&lt;211&gt; 44

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 302

Met Leu Tyr Ile Phe Ile Phe Val Leu Phe Leu Gly Lys Asn Thr Gln  
 1 5 10 15

Lys Ala Lys His Pro Gln Met Val Leu Leu Tyr Ser Ala Glu Gly Asn  
 20 25 30

Phe Lys Phe Gln Ile Arg Val Thr Asn Ala Ala Leu  
 35 40

&lt;210&gt; 303

&lt;211&gt; 100

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 303

Met Gly Ser Leu Ser Gly His Ala Tyr Ser Cys Leu Leu Val Phe Leu  
 1 5 10 15

Leu Thr Val Ser Pro Leu Cys Cys Gln Tyr Thr Gly Val Cys Trp Arg  
 20 25 30

Phe Thr Pro Asp Pro Val Cys Leu Gly Ile Thr Ser Gly Gly Cys Arg  
 35 40 45

Thr Ala Lys Ile Ala Ala Ser Cys Phe Leu Trp Lys Leu Cys Pro Arg  
 50 55 60  
 Gly Ala Pro Ala Arg Cys Gln Pro Glu Leu Ser Cys Arg Arg Cys Leu  
 65 70 75 80  
 Ser Ala Ser Thr Gly Arg Cys Leu Pro Val Arg Ile His Arg Gly Gln  
 85 90 95  
 Gly Pro Thr Arg  
 100

<210> 304  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 304  
 Met Cys Leu Phe Leu Trp Phe Leu Tyr Lys Ser Ser Asn Thr Ser Ile  
 1 5 10 15  
 Phe Leu Leu Leu Leu Ile Leu Gln Asn Val Glu Gln Phe Ala Glu Tyr  
 20 25 30

<210> 305  
 <211> 205  
 <212> PRT  
 <213> Homo sapiens

<400> 305  
 Met Pro Gly His Val Pro Leu Cys Pro Leu Val Leu Gln Val Pro Ser  
 1 5 10 15  
 Pro Ala Ser Gly Ala Arg Gln Leu Ala Thr Trp Glu Gly Arg Ser Gln  
 20 25 30  
 Glu Phe His Thr Leu Val Leu Arg Pro Glu Pro Ala Leu Arg Leu Pro  
 35 40 45  
 Ala Pro Gln Asp Thr Ala Gly Cys Trp Thr Pro Ser Ser Leu Val Cys  
 50 55 60  
 Val Cys Val Ala Glu Lys Asp Lys Thr Val Gln Ser Ala Ala Tyr Ser  
 65 70 75 80  
 Gln Ser Gly Val Trp Ser Val Cys Leu Leu Leu Cys Gly Ser Ser Arg  
 85 90 95  
 Thr Thr Ser Phe Leu Val Leu Phe Gly Phe Trp His Leu Val Phe Leu  
 100 105 110  
 Thr Thr Asn Asn Gly Glu Lys Glu Leu Ile Leu Ser Asp Thr Glu Asp  
 115 120 125  
 Cys Leu Thr Leu Val Ser Val Arg Ser His Lys Arg Glu Thr Glu Phe  
 130 135 140  
 Cys Gly Ser Ala His Arg Thr Asp Pro Gln Pro Arg Gln Arg Val Cys  
 145 150 155 160  
 Gly Asp Gly Ala Leu Ser Cys Gln Gly Ala Pro Gly Ala Glu Pro Gly

<210> 309

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<220>
<221> SITE
<222> (297)
<223> Xaa equals any of the naturally occurring L-amino acids
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<400> 309																
Met 1	Leu	Pro	Thr	Phe 5	Leu	Leu	Met	Asn	Leu 10	Leu	Ser	Leu	Ala	Gly 15	Asp	
Val	Ala	Leu	Gln 20	Gln	Leu	Val	His	Leu 25	Glu	Gln	Ala	Val	Ser 30	Gly	Glu	
Leu	Cys	Arg 35	Arg	Arg	Val	Leu	Arg 40	Glu	Glu	Gln	Glu	His 45	Lys	Thr	Lys	
Asp	Pro 50	Lys	Glu	Lys	Asn	Thr 55	Ser	Ser	Glu	Thr	Thr 60	Met	Glu	Glu	Glu	
Leu 65	Gly	Leu	Val	Gly	Ala 70	Thr	Ala	Asp	Asp	Thr 75	Glu	Ala	Glu	Leu	Ile 80	
Arg	Gly	Ile	Cys 85	Glu	Met	Glu	Leu	Leu	Asp 90	Gly	Lys	Gln	Thr	Leu 95	Ala	
Ala	Phe	Val	Pro 100	Leu	Leu	Leu	Lys	Val 105	Cys	Asn	Asn	Pro	Gly 110	Leu	Tyr	
Ser	Asn	Pro 115	Asp	Leu	Ser	Ala	Ala 120	Ala	Ser	Leu	Ala	Leu 125	Gly	Lys	Phe	
Cys	Met 130	Ile	Ser	Ala	Thr	Phe 135	Cys	Asp	Ser	Gln	Leu 140	Arg	Leu	Leu	Phe	
Thr 145	Met	Leu	Glu	Lys	Ser 150	Pro	Leu	Pro	Ile	Val 155	Arg	Ser	Asn	Leu	Met 160	
Val	Ala	Thr	Gly 165	Asp	Leu	Ala	Ile	Arg	Phe 170	Pro	Asn	Leu	Val	Asp 175	Pro	
Trp	Thr	Pro	His 180	Leu	Tyr	Ala	Arg	Leu 185	Arg	Asp	Pro	Ala	Gln 190	Gln	Val	
Arg	Lys	Thr 195	Ala	Gly	Leu	Val	Met 200	Thr	His	Leu	Ile	Leu 205	Lys	Asp	Met	
Val	Lys 210	Val	Lys	Gly	Gln	Val 215	Ser	Glu	Met	Ala	Val 220	Leu	Leu	Ile	Asp	
Pro 225	Glu	Pro	Gln	Ile	Ala 230	Ala	Leu	Ala	Lys	Asn 235	Phe	Phe	Asn	Glu	Leu 240	
Ser	His	Lys	Gly 245	Asn	Ala	Ile	Tyr	Asn	Leu 250	Leu	Pro	Asp	Ile	Ile 255	Ser	
Arg	Leu	Ser	Asp 260	Pro	Glu	Leu	Gly	Val 265	Glu	Glu	Glu	Pro	Phe 270	His	Thr	
Ile	Met	Lys 275	Gln	Leu	Leu	Ser	Tyr 280	Ile	Thr	Lys	Asp	Lys 285	Gln	Thr	Glu	
Ser	Leu 290	Val	Glu	Lys	Leu	Cys 295	Gln	Xaa	Phe	Arg	Thr 300	Ser	Arg	Thr	Glu	

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<220>
<221> SITE
<222> (221)

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<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (223)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 312

Met Leu Thr Arg Lys Glu Thr Glu His Val Ser Ala Leu Ile Leu Arg  
1 5 10 15

Ala Phe Leu Leu Thr Ile Pro Glu Asn Ala Glu Gly His Ile Ile Leu  
20 25 30

Gly Lys Ser Leu Ile Val Pro Leu Lys Gly Gln Arg Val Ile Asp Ser  
35 40 45

Thr Val Leu Pro Gly Ile Leu Ile Glu Met Ser Glu Val Gln Leu Met  
50 55 60

Arg Leu Leu Pro Ile Lys Lys Ser Thr Ala Leu Lys Val Ala Leu Phe  
65 70 75 80

Cys Thr Thr Leu Ser Gly Asp Thr Ser Asp Thr Gly Glu Gly Thr Val  
85 90 95

Val Val Ser Tyr Gly Val Ser Leu Glu Asn Ala Val Leu Asp Gln Leu  
100 105 110

Leu Asn Leu Gly Arg Gln Leu Ile Ser Asp His Val Asp Leu Val Leu  
115 120 125

Cys Gln Lys Val Ile His Pro Ser Leu Lys Gln Phe Leu Asn Met His  
130 135 140

Arg Ile Ile Ala Ile Asp Arg Ile Gly Val Thr Leu Met Glu Pro Leu  
145 150 155 160

Thr Lys Met Thr Gly Thr Gln Pro Ile Gly Ser Leu Gly Ser Ile Cys  
165 170 175

Pro Asn Ser Tyr Gly Ser Val Lys Asp Val Cys Thr Ala Lys Phe Gly  
180 185 190

Ser Lys His Phe Phe His Leu Ile Pro Asn Xaa Ala Thr Ile Cys Ser  
195 200 205

Leu Leu Leu Cys Asn Arg Asn Glu Gly Val Ser Arg Xaa Leu Xaa  
210 215 220

<210> 313

<211> 37

<212> PRT

<213> Homo sapiens

<400> 313

Met Phe Gly Gln Gly Leu Leu Val Leu Leu Gly Phe Trp Val Glu Gly  
1 5 10 15

Ala Arg Arg Gly Trp Ser Pro Pro Ile Phe Leu Phe Pro Val His Val  
20 25 30

Thr Leu Phe Tyr Arg  
35

<210> 314  
 <211> 94  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (30)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (37)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 314  
 Ala Xaa Pro Ser Ser Gly Ala Pro Phe Leu Leu Leu Leu Phe Lys  
   1                  5                  10                  15  
 Leu Trp Leu Val Val Pro Gly Ser Ser Thr Asp Ile Ser Xaa Asp Trp  
           20                  25                  30  
 Glu Lys Asp Phe Xaa Leu Asp Met Thr Glu Glu Glu Val Gln Met Ala  
           35                  40                  45  
 Leu Ser Lys Val Asp Ala Ser Gly Glu Val Ser Gly Pro Gly Gly Ser  
   50                  55                  60  
 Glu Gly Ser Glu Pro Asn Gly Pro Gly Cys Glu Ser Ser Pro Gln Pro  
   65                  70                  75                  80  
 Ala Gln Leu Ser Pro Gln Glu Gly Pro Cys Ser Cys Leu Arg  
                   85                  90

<210> 315  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 315  
 Met His Gly Asp Ala Gly Pro Leu His Phe Leu Val Ser Leu Ser Phe  
   1                  5                  10                  15  
 Ser Ser Cys Ser Ser Pro Tyr Gln Gly Ser Leu Ser Pro Gly Leu Gln  
           20                  25                  30  
 Met Pro Leu Gln Phe Gly Leu Ser Ser Asp Ser Pro Ser Ser Arg Lys  
           35                  40                  45  
 Ala Phe Gln Asp Phe Leu Leu Trp Val Leu  
   50                  55

<210> 316  
 <211> 248  
 <212> PRT  
 <213> Homo sapiens  
 <220>

<221> SITE  
 <222> (117)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (215)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 316  
 Met Gly Gly Leu Ile Ile Leu Phe Leu Ile Ala Ile Ile Trp Phe Pro  
 1 5 10 15  
 Leu Leu Phe Met Ser Leu Val Arg Ser Val Val Gly Val Val Asn Gln  
 20 25 30  
 Pro Ile Asp Val Thr Val Thr Leu Lys Leu Gly Gly Tyr Glu Pro Leu  
 35 40 45  
 Phe Thr Met Ser Ala Gln Gln Pro Ser Ile Ile Pro Phe Thr Ala Gln  
 50 55 60  
 Ala Tyr Glu Glu Leu Ser Arg Gln Phe Asp Pro Gln Pro Leu Ala Met  
 65 70 75 80  
 Gln Phe Ile Ser Gln Tyr Ser Pro Glu Asp Ile Val Thr Ala Gln Ile  
 85 90 95  
 Glu Gly Ser Ser Gly Ala Leu Trp Arg Ile Ser Pro Pro Ser Arg Ala  
 100 105 110  
 Gln Met Lys Arg Xaa Ser Thr Thr Ala Arg Pro Thr Ser Pro Cys Ala  
 115 120 125  
 Ser Pro Gly Thr Ser Arg Gly Thr Trp Arg Arg Glu Ala Leu Trp Ser  
 130 135 140  
 Met Pro Thr Arg Ser Thr Cys Trp Pro Trp Pro Gln Gln His Cys Thr  
 145 150 155 160  
 Ala Ala Val Ala Ser Leu Leu Glu Gly Thr Ser Asp Gln Ser Val Val  
 165 170 175  
 Ile Pro Asn Leu Phe Pro Lys Tyr Ile Arg Ala Pro Asn Gly Pro Glu  
 180 185 190  
 Ala Asn Pro Val Lys Gln Leu Gln Pro Asn Glu Glu Ala Asp Tyr Leu  
 195 200 205  
 Gly Val Arg Ile Gln Leu Xaa Arg Glu Gln Gly Ala Gly Ala Thr Gly  
 210 215 220  
 Phe Pro Arg Met Val Gly His Arg Ala Ala Gly Val Pro Asp Arg Leu  
 225 230 235 240  
 Gln Pro Cys Cys Pro Trp Ser Phe  
 245

<210> 317  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE

1030316 0349360

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 317

Met His Cys Leu Ile Ser Phe Leu Ala Leu Ser Leu Phe Leu Phe Val  
1 5 10 15

Leu Phe Xaa Pro Phe Ser Leu Pro Ile Lys Asn Ile Cys  
20 25

<210> 318

<211> 35

<212> PRT

<213> Homo sapiens

<400> 318

Met Gly Ala Asn Ser Leu Leu His Glu Thr Arg Ala Leu Phe Leu His  
1 5 10 15

Leu Met Gln Pro Leu Leu Gly Glu Glu Val Gly Ile Ile Gly Asn Lys  
20 25 30

Gln Gln Phe  
35

<210> 319

<211> 35

<212> PRT

<213> Homo sapiens

<400> 319

Met Leu Cys Pro Tyr Thr Leu Phe Ser Trp Phe Leu Ser Pro Leu Leu  
1 5 10 15

Cys Leu Gln Gly Trp Ala Ala Ala Thr Ala Leu Ala Ser Ser Leu Ser  
20 25 30

Ala Ser Glu  
35

<210> 320

<211> 36

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (19)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (31)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 320

Met Ala Ile Arg Cys Cys Ser Ser Thr Ser Asn Ala Leu Ile Leu Ile  
1 5 10 15

Leu Phe Xaa Trp Thr Val Leu Leu Ser Ser Ser Xaa Ile Gln Xaa Leu  
                   20                  25                  30

Pro Ala Leu Leu  
                   35

<210> 321  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<400> 321  
 Met Ser Val Trp Cys Gly Leu Cys Leu Met Ser Phe Leu Thr Phe Arg  
   1                  5                  10                  15

Cys Arg Leu Phe Gln Leu Leu Leu Phe His Phe Pro Glu Asp Leu Cys  
                   20                  25                  30

Phe Cys Leu Pro Cys Glu Gln Ala Phe Gly Arg Thr Cys Leu Met Gln  
                   35                  40                  45

Lys Arg Lys  
                   50

<210> 322  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 322  
 Met Arg His Arg Ala Arg Arg Phe Phe Phe Phe Phe Phe Leu Ser Gly  
   1                  5                  10                  15

Ile Trp Ala Gly His Gly Gly Ser Cys Leu  
                   20                  25

<210> 323  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 323  
 Met Leu Thr Leu Val Ser Phe Val Phe Leu Leu Leu Leu Leu Glu Ser  
   1                  5                  10                  15

Met Ile

<210> 324  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<400> 324  
 Met Ala Ala Leu Leu Leu Thr Leu Ile Leu Gly Thr Leu His Gln Gln  
   1                  5                  10                  15

Lys Gly Leu His Val Gln Ser Pro Ile Pro Ser Pro Phe Trp Gly Gly  
                   20                  25                  30

Glu Ala Tyr Leu Thr Asp Gly Asp Leu Glu Ala Gln Gly Gly

35

40

45

<210> 325  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 325  
 Met Leu Ser Phe Gln Lys Ala Ile Leu Phe Leu Ala Met Gly Cys Leu  
   1                  5                  10                  15  
 Pro Cys Ile Pro Gln Gly Leu Ser Cys Ala Phe His Pro Ala Ser Phe  
                   20                  25                  30  
 His Lys Ala Leu Ser Gly Cys Arg Thr Leu Ile  
                   35                  40

<210> 326  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (48)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 326  
 Val Gly Gly Phe Trp Phe Gly Asp Ile Gln Ser Leu Lys Pro Gly Gly  
   1                  5                  10                  15  
 Cys Gly Gln Gly Leu His Phe Met Lys Leu Pro Ser Lys Leu Arg Ser  
                   20                  25                  30  
 Leu Gly Pro Gln Asp Pro Pro Asn Trp Pro Xaa Thr Trp Cys His Xaa  
                   35                  40                  45  
 Ala Ala Ala Ala Arg Ile Cys Ala Phe Pro Gln Val Pro Cys Leu Ser  
                   50                  55                  60  
 Cys Val His Pro Gly Ala Trp  
   65                  70

<210> 327  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (57)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 327  
 Met Cys His Leu Cys Val His Val Gly Leu Leu Val Ser Leu Phe Pro  
   1                  5                  10                  15  
 Ser Gln Ala Ala Gly Phe Val Trp Met Arg Met Ala Pro Phe Leu Phe

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<400> 330
Met Cys Ala Leu Gln Asn Leu Ala Pro Asn Ile Phe Phe Ile Leu Phe
  1          5          10          15
Leu Met Glu Ala Thr Ile Cys Ser Leu Leu Leu Cys Asn Arg Asn Asp
      20          25          30
Thr Ala Trp Asp Glu Leu Lys Leu Thr Cys Gln Thr Ala Leu His Val
    35          40          45
Leu Gln Leu Thr Leu Lys Glu Pro Trp Ala Leu Leu Gly Gly Gly Cys
    50          55          60
Thr Glu Thr His Leu Ala Ala Tyr Ile Arg His Lys Thr His Asn Asp
    65          70          75          80
Pro Glu Ser Ile Leu Lys Asp Asp Glu Cys Thr Gln Thr Glu Leu Gln
      85          90          95
Leu Ile Ala Glu Ala Phe Cys Ser Ala Leu Glu Ser Val Val Gly Ser
      100          105          110
Leu Glu His Asp Gly Gly Glu Ile Leu Thr Asp Met Lys Tyr Gly His
      115          120          125
Leu Trp Ser Val Gln Ala Asp Ser Pro Cys Val Ala Asn Trp Pro Asp

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130		135		140
Leu Leu Ser Gln Cys Gly Cys Gly Leu Tyr Asn Ser Gln Glu Glu Leu				
145		150		155
Asn Trp Ser Phe Leu Arg Ser Thr Arg Arg Pro Phe Val Pro Gln Ser				
	165		170	175
Cys Leu Pro His Glu Ala Val Gly Ser Ala Ser Asn Leu Thr Leu Asp				
	180		185	190
Cys Leu Thr Ala Lys Leu Ser Gly Leu Gln Val Ala Val Glu Thr Ala				
	195		200	205
Asn Leu Ile Leu Asp Leu Ser Tyr Val Ile Glu Asp Lys Asn				
210		215		220

<210> 331  
 <211> 155  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (14)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (17)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (23)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (100)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 331														
Gln Gly Asn Ser Ala Arg Ala Leu Lys Val Phe Asn Ile Xaa Val Leu														
1				5				10					15	
Xaa Pro Ser Gly Asn Tyr Xaa Met Ile Tyr Leu Ile Arg Val Gly Met														
			20				25					30		
Glu Trp Ile His Leu Xaa Asp Ala Lys Gln Pro Glu Xaa Ala Val Pro														
			35			40					45			
Arg Gly His Ile Ser Lys Trp Ser Glu Met Arg Phe Ala Val Val Phe														
50					55						60			



Leu Met Gln Phe Pro Thr Ser Leu Gln Met Pro Phe Asp Ile Trp Gln  
 65 70 75 80  
 His Phe Met Pro Leu Pro Leu Ser Val Phe Ile Leu Val Phe Ser Pro  
 85 90 95  
 Phe Ser His Xaa Leu Gly Ser Leu Leu Gln Ser Arg Phe Ser Asp Phe  
 100 105 110  
 Arg Phe Phe Ser Leu Cys Pro Phe Pro Leu Cys Pro Val Thr Arg Ser  
 115 120 125  
 Thr Phe Trp His Arg Pro Ile Ser Gln Phe Pro Leu Ser Gln Val Gln  
 130 135 140  
 Gln His Leu Lys Asp Ile Tyr Lys Arg Asp Thr  
 145 150 155

<210> 332  
 <211> 18  
 <212> PRT  
 <213> Homo sapiens

<400> 332  
 Arg Ser Arg Glu Ile Glu Thr Arg Gly Leu Leu Ser Leu Phe Pro Pro  
 1 5 10 15

Ala Ala

<210> 333  
 <211> 142  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (92)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (106)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (110)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (113)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 333  
 Arg Ser Arg Glu Ile Glu Thr Arg Gly Leu Leu Ser Leu Phe Pro Pro  
 1 5 10 15

Ala Ala Met His Pro Ala Ala Phe Pro Leu Pro Val Val Val Ala Ala  
 20 25 30

Val Leu Trp Gly Ala Ala Pro Thr Arg Gly Leu Ile Arg Ala Thr Ser  
 35 40 45

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Asp His Asn Ala Ser Met Asp Phe Ala Asp Leu Pro Ala Leu Phe Gly  
 50 55 60  
 Ala Thr Leu Ser Gln Glu Gly Leu Gln Gly Phe Leu Val Glu Ala His  
 65 70 75 80  
 Pro Asp Asn Ala Cys Ser Pro Ile Ala Pro Pro Xaa Pro Ala Pro Val  
 85 90 95  
 Asn Gly Ser Val Phe Ile Ala Leu Leu Xaa Arg Phe Asp Xaa Asn Phe  
 100 105 110  
 Xaa Leu Lys Val Leu Asn Ala Gln Lys Ala Gly Tyr Gly Ala Ala Val  
 115 120 125  
 Val His Asn Val Asn Ser Asn Glu Leu Leu Asn Met Val Leu  
 130 135 140

<210> 334  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 334  
 Leu Gln Gln Thr Met Gln Ala Met Leu His Phe Gly Gly Arg Leu Ala  
 1 5 10 15  
 Gln Ser Leu Arg Gly Thr Ser Lys Glu Ala Ala Ser Asp Pro Ser Asp  
 20 25 30  
 Ser Pro Asn Leu Pro Thr Pro Gly Ser Trp Trp  
 35 40

<210> 335  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 335  
 Glu Gln Leu Thr Gln Ala Ser Arg Val Tyr Ala Ser Gly Gly Thr Glu  
 1 5 10 15  
 Gly Phe Pro Leu Ser Arg Trp Ala Pro Gly Arg His Gly Thr Ala Ala  
 20 25 30  
 Glu Glu Gly Ala Gln Glu Arg Pro Leu Pro Thr Asp Glu  
 35 40 45

<210> 336  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 336  
 Met Ala Pro Gly Arg Gly Leu Trp Leu Gly Arg Leu Phe Gly Val Pro  
 1 5 10 15  
 Gly Gly Pro Ala Glu Asn Glu Asn Gly Ala Leu Lys Ser Arg Arg Pro  
 20 25 30  
 Ser Ser Trp Leu Pro Pro Thr Val Ser Val Leu Ala Leu  
 35 40 45

115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195 200 205 210 215 220 225 230 235 240 245 250 255 260 265 270 275 280 285 290 295 300 305 310 315 320 325 330 335 340 345 350 355 360 365 370 375 380 385 390 395 400 405 410 415 420 425 430 435 440 445 450 455 460 465 470 475 480 485 490 495 500 505 510 515 520 525 530 535 540 545 550 555 560 565 570 575 580 585 590 595 600 605 610 615 620 625 630 635 640 645 650 655 660 665 670 675 680 685 690 695 700 705 710 715 720 725 730 735 740 745 750 755 760 765 770 775 780 785 790 795 800 805 810 815 820 825 830 835 840 845 850 855 860 865 870 875 880 885 890 895 900 905 910 915 920 925 930 935 940 945 950 955 960 965 970 975 980 985 990 995

<210> 337  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<400> 337  
 Val Lys Arg Gly Ala Pro Pro Glu Met Pro Ser Pro Gln Glu Leu Glu  
   1                  5                  10                  15  
 Ala Ser Ala Pro Arg Met Val Gln Thr His Arg Ala Val Arg Ala Leu  
                   20                  25                  30  
 Cys Asp His Thr Ala Ala Arg Pro Asp Gln Leu Ser  
           35                  40

<210> 338  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 338  
 Phe Arg Arg Gly Glu Val Leu Arg Val Ile Thr Thr Val Asp Glu Asp  
   1                  5                  10                  15  
 Trp Leu Arg Cys Gly Arg Asp Gly Met Glu Gly Leu Val Pro Val Gly  
                   20                  25                  30  
 Tyr Thr Ser Leu Val Leu  
           35

<210> 339  
 <211> 215  
 <212> PRT  
 <213> Homo sapiens

<400> 339  
 Leu Gln Gln Thr Met Gln Ala Met Leu His Phe Gly Gly Arg Leu Ala  
   1                  5                  10                  15  
 Gln Ser Leu Arg Gly Thr Ser Lys Glu Ala Ala Ser Asp Pro Ser Asp  
                   20                  25                  30  
 Ser Pro Asn Leu Pro Thr Pro Gly Ser Trp Trp Glu Gln Leu Thr Gln  
           35                  40                  45  
 Ala Ser Arg Val Tyr Ala Ser Gly Gly Thr Glu Gly Phe Pro Leu Ser  
   50                  55                  60  
 Arg Trp Ala Pro Gly Arg His Gly Thr Ala Ala Glu Glu Gly Ala Gln  
   65                  70                  75                  80  
 Glu Arg Pro Leu Pro Thr Asp Glu Met Ala Pro Gly Arg Gly Leu Trp  
                   85                  90                  95  
 Leu Gly Arg Leu Phe Gly Val Pro Gly Gly Pro Ala Glu Asn Glu Asn  
           100                  105                  110  
 Gly Ala Leu Lys Ser Arg Arg Pro Ser Ser Trp Leu Pro Pro Thr Val  
           115                  120                  125  
 Ser Val Leu Ala Leu Val Lys Arg Gly Ala Pro Pro Glu Met Pro Ser  
   130                  135                  140

Pro Gln Glu Leu Glu Ala Ser Ala Pro Arg Met Val Gln Thr His Arg  
145 150 155 160

Ala Val Arg Ala Leu Cys Asp His Thr Ala Ala Arg Pro Asp Gln Leu  
165 170 175

Ser Phe Arg Arg Gly Glu Val Leu Arg Val Ile Thr Thr Val Asp Glu  
180 185 190

Asp Trp Leu Arg Cys Gly Arg Asp Gly Met Glu Gly Leu Val Pro Val  
195 200 205

Gly Tyr Thr Ser Leu Val Leu  
210 215

<210> 340

<211> 21

<212> PRT

<213> Homo sapiens

<400> 340

Ile Pro Glu Lys Lys Tyr Pro Gln Pro Lys Gly Gln Lys Lys Lys Lys  
1 5 10 15

Ile Val Lys Tyr Gly  
20

<210> 341

<211> 11

<212> PRT

<213> Homo sapiens

<400> 341

Phe Cys Ser Ser Phe Thr Asn Ser Val Leu Ser  
1 5 10

<210> 342

<211> 12

<212> PRT

<213> Homo sapiens

<400> 342

Ala Arg Gly Val Phe Val Cys Val Cys Gly Val Cys  
1 5 10

<210> 343

<211> 21

<212> PRT

<213> Homo sapiens

<400> 343

Gln Val Tyr Ser Leu Asp Ser Ala Asp Ser Phe Gln Ser Phe Tyr Ser  
1 5 10 15

Pro His Lys Ala Gln  
20

<210> 344

<211> 229

<212> PRT

145 150 155 160 165 170 175 180 185 190 195 200 205 210 215



Ser Ser Ser Ser Val Arg Gly Ser Ser Ala Ser Arg Leu Ala Ala Gly  
 65 70 75 80  
 Ile Trp Ser Asn Arg Gly Phe Phe Asp Thr Glu Glu Glu Val Val Cys  
 85 90 95  
 Ser Arg Val Gly Arg Ser Leu Phe Phe Ser Leu Ala Ala Ala Leu Ser  
 100 105 110  
 Leu Ser Ser Asn Ser Leu Leu Lys Ser Arg Leu Arg Thr Ser Ser Gly  
 115 120 125  
 Ala Ser  
 130

<210> 346  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (60)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 346  
 Glu Phe Gly Thr Ser Asp Leu Val Pro Phe Val Lys Ile Glu Asn Asn  
 1 5 10 15  
 His Phe Val Phe Leu Cys Arg His Ser Leu Ala Val Gly Met His Ser  
 20 25 30  
 Ser Ala Glu Thr Leu Leu Cys Trp Pro Leu Phe Val Gly Val Ala Val  
 35 40 45  
 Gly Gly Gln Gly Ala Ser Ser Lys Ser Ser Ser Xaa Trp Thr Leu Ser  
 50 55 60  
 Arg Ala  
 65

<210> 347  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<400> 347  
 Met Pro Pro Asp Ser Pro Gln Arg Trp Arg Trp Cys Trp Cys Cys Trp  
 1 5 10 15  
 Pro Pro Pro Val Thr Tyr Ser Trp Glu Val Thr Pro Leu Leu Arg Ala  
 20 25 30  
 Met Leu Pro Gly Asp Gly Arg Val Gly Pro Ala Val Leu Val Arg Leu  
 35 40 45  
 Ser Arg Gly Val Ser Gly Ser Pro Phe Pro Ala Gly Gly Ser Pro Arg  
 50 55 60  
 Val Pro Ser Cys Ala Cys Ile Val Leu Thr Ser Arg Asn Gly Ser Ser  
 65 70 75 80  
 Trp

<210> 348  
 <211> 56  
 <212> PRT  
 <213> Homo sapiens

<400> 348  
 Gly Thr Arg Ala Leu Ser Cys Met Pro Arg Val Leu His Glu Arg Ala  
   1                  5                  10                  15  
 Pro Leu Val Met Pro Leu Asp Ala Ala Lys Ser Met Val Val Phe Asn  
           20                  25                  30  
 Phe Ala Ile Leu Leu Phe Phe Leu Pro Asp Pro Gly Met Ser Leu Asp  
       35                  40                  45  
 Ile Ala Lys Ile Tyr Phe Cys Ser  
       50                  55

<210> 349  
 <211> 36  
 <212> PRT  
 <213> Homo sapiens

<400> 349  
 Ala Arg Ala Thr Pro Pro His Arg His Ser Pro Glu Pro Cys Gln Glu  
   1                  5                  10                  15  
 Ala Ala Ser Thr Gln Pro Tyr Leu Glu Ala Pro Ala Pro Ser Pro Gly  
           20                  25                  30  
 Tyr His Ala Thr  
       35

<210> 350  
 <211> 63  
 <212> PRT  
 <213> Homo sapiens

<400> 350  
 His Glu Pro Pro His Pro Thr Ala Thr Ala Gln Ser Arg Ala Arg Lys  
   1                  5                  10                  15  
 Pro Pro Arg Arg Ser Arg Ile Leu Arg Leu Gln Pro His Pro Gln Gly  
           20                  25                  30  
 Thr Thr Pro Arg Arg Asp Thr Ile Phe His Phe Val Phe Val Thr Pro  
       35                  40                  45  
 Lys Ala Cys Val Leu Ala Ala Pro Thr Leu Gly Cys Leu Gly Ala  
       50                  55                  60

<210> 351  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 351  
 Gly Arg Pro Thr Arg Pro Pro Thr Arg Pro Ala Gly Asp Lys Ile Tyr  
   1                  5                  10                  15





<210> 354  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 354  
 Trp Gly Val Gly Leu His Ser Phe Pro Val Thr Pro Glu Thr Gln Glu  
   1                  5                  10                  15  
 Gln Asp Ala Glu Ile Val Gln  
                   20

<210> 355  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<400> 355  
 Pro Val Thr Pro Glu Thr Gln Glu Gln Asp Ala Glu Ile Val Gln Val  
   1                  5                  10                  15  
 Asn Ala Ala Leu Gln Leu Pro Val Met Gln Glu Gln Arg Val Pro Ile  
                   20                  25                  30  
 Phe Gln Arg Ser Arg Gly Arg Asn Ser Ser Lys  
                   35                  40

<210> 356  
 <211> 154  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (75)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (118)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 356  
 Ser Leu Ser Pro Cys Leu Phe Ser Asp Glu Ala Lys Trp Pro Gly Gly  
   1                  5                  10                  15  
 Thr Leu Arg Thr Pro Ser Leu Gln Arg Gly Gly Gln Leu Gly Leu Ser  
                   20                  25                  30  
 Pro Gln Cys Phe Leu Pro Val Thr Cys Val Leu Leu Ala Gly Val Gly  
                   35                  40                  45  
 Gly Ala Gly Ile Leu Ala Leu Leu Gly Gly Arg Ala Gln Pro Glu Glu  
                   50                  55                  60  
 Ala Glu Pro Gln Thr Gly Met Gly Phe Ser Xaa Val Gly Cys Gly Arg  
   65                  70                  75                  80  
 Gly Asp Asp Ala Leu Phe Leu Ile Phe Asp Leu Phe Phe Gln Leu Asp  
                   85                  90                  95  
 Phe Phe Pro Gly Leu Phe Leu Gly Pro Ala Ala Phe Val Ile Pro Arg

100	105	110
Pro Gly Pro Arg Pro Xaa Thr Ser Ser Ala Gly Ala Pro Pro Ala Val		
115	120	125
Gly Ser Gly Cys Asp Arg Ala Glu Val Leu Ser Gly Thr Leu Gly Ser		
130	135	140
Gln Pro Gly Asp Ser Glu Pro Arg Gly Arg		
145	150	

<210> 357  
 <211> 115  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (89)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (92)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (93)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (100)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (101)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 357  
 Pro Tyr Asp Glu Glu Ile Ile Thr Val Lys Lys Tyr Glu Ala Gln Arg  
 1 5 10 15

Pro Thr Ile Asn Cys Pro Ile Ile Asn Val Glu Phe Lys Leu Asp Leu  
 20 25 30

Ser Leu Gly Arg Val Cys Thr Phe Tyr Cys Cys Cys Ser Ile Ile Ile  
 35 40 45

Arg Gln Val Tyr Arg Lys Tyr Met Met Ser Thr Tyr Asn Pro Arg Ile  
 50 55 60

Lys Phe Tyr Ser His Ser Arg Ser His Tyr Tyr Leu His Ser Lys Lys  
 65 70 75 80

Leu Leu Asn Glu Gln Leu Lys Glu Xaa Thr Lys Xaa Xaa Lys Arg Ile  
 85 90 95

Gln Thr Gly Xaa Xaa Gln Thr Gly Ile Arg Glu Asp Met Arg Lys Met  
 100 105 110

Ile Asn Gln  
 115

115 120 125 130 135 140 145 150 155 160 165 170 175 180 185 190 195 200 205 210 215 220 225 230 235 240 245 250 255 260 265 270 275 280 285 290 295 300 305 310 315 320 325 330 335 340 345 350 355 360 365 370 375 380 385 390 395 400 405 410 415 420 425 430 435 440 445 450 455 460 465 470 475 480 485 490 495 500 505 510 515 520 525 530 535 540 545 550 555 560 565 570 575 580 585 590 595 600 605 610 615 620 625 630 635 640 645 650 655 660 665 670 675 680 685 690 695 700 705 710 715 720 725 730 735 740 745 750 755 760 765 770 775 780 785 790 795 800 805 810 815 820 825 830 835 840 845 850 855 860 865 870 875 880 885 890 895 900 905 910 915 920 925 930 935 940 945 950 955 960 965 970 975 980 985 990 995



1 5 10 15  
 Gln Leu Lys Glu Xaa Thr Lys Xaa Xaa Lys Arg Ile Gln Thr Gly Xaa  
                   20                  25                  30  
 Xaa Gln Thr Gly Ile Arg Glu Asp Met Arg Lys Met Ile Asn Gln  
           35                  40                  45

<210> 361  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 361  
 Trp Gly Leu Val Thr Leu Ala Gly  
   1                  5

<210> 362  
 <211> 90  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (7)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (11)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 362  
 Gly Ser Val Gly Xaa Asn Xaa Leu Thr Thr Xaa Ala Glu Asn Ile Xaa  
   1                  5                  10                  15  
 Val Met Ala Val Thr Lys Ile Tyr Ser Thr Leu Val Phe Val Ala Xaa  
           20                  25                  30  
 Ala Val Ile Ala Met Leu Leu Gly Phe Ser Pro Lys Phe Gly Ala Leu  
           35                  40                  45  
 Ile His Thr Ile Pro Ala Ala Val Ile Gly Gly Ala Ser Ile Val Val  
   50                  55                  60  
 Phe Gly Leu Ile Ala Val Ala Gly Ala Arg Ile Trp Val Gln Asn Arg  
   65                  70                  75                  80  
 Val Asp Leu Ser Gln Asn Gly Asn Leu Ile

85

90

<210> 363  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 363  
 Glu Ala Ala Gln Arg Gly Gln Val Gly Ser Asp Phe Ile Ile Asn  
 1 5 10 15

<210> 364  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 364  
 Arg Gln Gly Leu Ala Leu Leu Pro Arg Leu Glu Gly Ser Gly Met Ile  
 1 5 10 15

Ile Ala His Cys Ser Leu Glu Leu Leu Asp Ser Ser Asp Pro Pro Thr  
 20 25 30

Ser Thr Ser  
 35

<210> 365  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (39)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (48)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 365  
 Asp Tyr Arg His Val Pro Pro His Leu Ala Asn Phe Phe Cys Phe Val  
 1 5 10 15

Asp Thr Gly Ser His Tyr Val Ala His Ala Ser Leu Glu Leu Leu Ala  
 20 25 30

Ser Ser Gly Ser Pro Thr Xaa Ala Ser Gln Ser Thr Gly His Tyr Xaa  
 35 40 45

Gln Glu Pro Pro Cys Leu Ala Ser Ile Leu Val Ile Asn Lys Glu Gln  
 50 55 60

Leu Ser Pro Ile Ala Leu Gln  
 65 70

<210> 366  
 <211> 134  
 <212> PRT  
 <213> Homo sapiens

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<220>  
 <221> SITE  
 <222> (101)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 366  
 Gly Thr Ser Ser Thr Ser Gly Ser Gln Ser Leu Gly Ala Met Lys Cys  
   1                  5                  10                  15  
 Ser Asn Asp Arg Pro Ile Trp Arg Arg His Asp Gly Trp Val Cys Arg  
           20                  25                  30  
 Thr Gln Leu Asn Ser Gly Ala Asp Leu Gly Met Ala Ile Arg Cys Cys  
       35                  40                  45  
 Ser Ser Thr Ser Asn Ala Leu Ile Leu Ile Leu Phe Thr Trp Thr Val  
       50                  55                  60  
 Leu Leu His His Pro Arg Ser Ser Ser Phe Leu Pro Ser Phe Lys Lys  
       65                  70                  75                  80  
 Pro Ser Trp Thr Ser Pro Leu Gly Tyr Ala Ile Ile Ala Thr Pro Cys  
                   85                  90                  95  
 Asn Ser Leu Ser Xaa His Leu Ser Cys Tyr Ile Glu Leu Ser Val Ser  
           100                  105                  110  
 Leu Thr Glu Cys Glu Pro Ala Leu Lys Leu Glu Val Arg Leu Gln Ala  
       115                  120                  125  
 Gly Gly Ile Val Leu Gly  
       130

<210> 367  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (44)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 367  
 Thr Arg Pro Tyr Tyr Cys Asn Val Cys Asn Cys Leu Val Lys Asp Ser  
   1                  5                  10                  15  
 Ile Asn Phe Leu Asp His Ile Asn Gly Lys Lys His Gln Arg Asn Leu  
           20                  25                  30  
 Gly Met Ser Met Arg Val Glu Arg Ser Thr Leu Xaa Ser Gly Glu Glu  
       35                  40                  45  
 Thr Phe Gly Gln Gln Glu Glu Asp Gly Arg Glu  
       50                  55

<210> 368  
 <211> 187  
 <212> PRT  
 <213> Homo sapiens

<400> 368  
 Arg Arg Lys Trp Asp Lys Asp Glu Tyr Glu Lys Leu Ala Glu Lys Arg  
   1                  5                  10                  15



<210> 371  
 <211> 109  
 <212> PRT  
 <213> Homo sapiens

<400> 371  
 Asp Asn Lys Thr Ala Leu Tyr Trp Ala Val Glu Lys Gly Asn Ala Thr  
   1                  5                  10                  15  
 Met Val Arg Asp Ile Leu Gln Cys Asn Pro Asp Thr Glu Ile Cys Thr  
                   20                  25                  30  
 Lys Asp Gly Glu Thr Pro Leu Ile Lys Ala Thr Lys Met Arg Asn Ile  
           35                  40                  45  
 Glu Val Val Glu Leu Leu Leu Asp Lys Gly Ala Lys Val Ser Ala Val  
       50                  55                  60  
 Asp Lys Lys Gly Asp Thr Pro Leu His Ile Ala Ile Arg Gly Arg Ser  
   65                  70                  75                  80  
 Arg Lys Leu Ala Glu Leu Leu Leu Arg Asn Pro Lys Asp Gly Arg Leu  
                   85                  90                  95  
 Leu Tyr Arg Pro Asn Lys Ala Gly Glu Thr Pro Leu Val  
           100                  105

<210> 372  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 372  
 Asp Asn Lys Thr Ala Leu Tyr Trp Ala Val Glu Lys Gly Asn Ala Thr  
   1                  5                  10                  15  
 Met Val Arg Asp Ile Leu Gln Cys Asn Pro Asp Thr Glu  
                   20                  25

<210> 373  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 373  
 Ile Cys Thr Lys Asp Gly Glu Thr Pro Leu Ile Lys Ala Thr Lys Met  
   1                  5                  10                  15  
 Arg Asn Ile Glu Val Val Glu Leu Leu Leu Asp Lys Gly  
           20                  25

<210> 374  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 374  
 Ala Lys Val Ser Ala Val Asp Lys Lys Gly Asp Thr Pro Leu His Ile  
   1                  5                  10                  15  
 Ala Ile Arg Gly Arg Ser Arg Lys Leu Ala Glu Leu Leu  
           20                  25





Tyr Ala Phe Val Leu Ala Glu Glu Ala Ser Gly Lys Thr Thr Ser Lys  
65 70 75 80

Leu Thr Met Val Thr Ser Arg Asn Gly Leu Gly Lys Pro Lys Asn Phe  
85 90 95

Phe Val Phe Val Phe Phe Glu Ser Gly Ser Ser Ser Val Thr Gln Xaa  
100 105 110

Gly Thr His Trp Cys Asp Xaa Gly Ser Leu Gln Pro  
115 120

<210> 378

<211> 24

<212> PRT

<213> Homo sapiens

<400> 378

Leu Phe Leu Leu Gly Ile Glu Asn Gly Ser His His Leu Leu Asn Lys  
1 5 10 15

Ile Leu Ser Gly Ser His Ser Glu  
20

<210> 379

<211> 11

<212> PRT

<213> Homo sapiens

<400> 379

Arg Glu Val Gln Tyr Leu Phe Phe Val Gly Ile  
1 5 10

<210> 380

<211> 32

<212> PRT

<213> Homo sapiens

<400> 380

Arg Arg Gly Phe His His Val Ser Gln Ala Gly Leu Glu Leu Leu Thr  
1 5 10 15

Ser Gly Asp Pro Pro Ala Ser Ala Ser Gln Ser Ala Gly Ile Thr Gly  
20 25 30

<210> 381

<211> 25

<212> PRT

<213> Homo sapiens

<400> 381

Gly Ser Leu Ile Lys Leu Ile Gly Asp Leu Phe Phe His Pro Arg Asn  
1 5 10 15

Trp Arg Ala Met Ile Ile Gly Ile Glu  
20 25

<210> 382



<210> 386  
 <211> 256  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (59)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (128)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 386  
 Met Lys Leu Leu Glu Asn Ser Ser Phe Glu Ala Ile Asn Ser Gln Leu  
   1                  5                  10                  15  
 Thr Val Glu Thr Gly Asp Ala His Ile Ile Gly Arg Ile Glu Ser Tyr  
           20                  25                  30  
 Ser Cys Lys Met Ala Gly Asp Asp Lys His Met Phe Lys Gln Phe Cys  
           35                  40                  45  
 Gln Glu Gly Gln Pro His Val Leu Glu Ala Xaa Ser Pro Pro Gln Thr  
   50                  55                  60  
 Ser Gly Leu Ser Pro Ser Arg Leu Ser Lys Ser Gln Gly Gly Glu Glu  
   65                  70                  75                  80  
 Glu Gly Pro Leu Ser Asp Lys Cys Ser Arg Lys Thr Leu Phe Tyr Leu  
           85                  90                  95  
 Ile Ala Thr Leu Asn Glu Ser Phe Arg Pro Asp Tyr Asp Phe Ser Thr  
           100                  105                  110  
 Ala Arg Ser His Glu Phe Ser Arg Glu Pro Ser Leu Ser Trp Trp Xaa  
   115                  120                  125  
 Asn Ala Val Asn Cys Ser Leu Phe Ser Ala Val Arg Glu Asp Phe Lys  
   130                  135                  140  
 Asp Leu Lys Pro Gln Leu Trp Asn Ala Val Asp Glu Glu Ile Cys Leu  
   145                  150                  155                  160  
 Ala Glu Cys Asp Ile Tyr Ser Tyr Asn Pro Asp Leu Asp Ser Asp Pro  
           165                  170                  175  
 Phe Gly Glu Asp Gly Ser Leu Trp Ser Phe Asn Tyr Phe Phe Tyr Asn  
   180                  185                  190  
 Lys Arg Leu Lys Arg Ile Val Phe Phe Ser Cys Arg Ser Ile Ser Gly  
   195                  200                  205  
 Ser Thr Tyr Thr Pro Ser Glu Ala Gly Asn Glu Leu Asp Met Glu Leu  
   210                  215                  220  
 Gly Glu Glu Glu Val Glu Glu Glu Ser Arg Ser Arg Gly Ser Gly Ala  
   225                  230                  235                  240  
 Glu Glu Thr Ser Thr Met Glu Glu Asp Arg Val Pro Val Ile Cys Ile  
           245                  250                  255

<210> 387  
 <211> 284  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (85)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (89)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (235)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (269)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (274)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 387  
 Ile Leu Phe Leu Phe Ile Leu Leu Ser Val Phe Pro Val Thr Asn Arg  
   1                  5                  10                  15  
 Ser Arg Asn Ser Gly Pro Phe Met Asn Ile Ser Arg Ser Ser Met Asp  
                   20                  25                  30  
 Met Gln Lys Arg Asn Phe Pro Val Lys Phe Val Arg Arg Asn Ser Ile  
                   35                  40                  45  
 Pro Trp Leu Met Cys Gly Asn Thr Trp Leu His Thr Gln Lys Thr Cys  
                   50                  55                  60  
 His Tyr Met Arg Asn Leu Trp Lys Ile Ile Gln Thr His Met Ser Leu  
                   65                  70                  75                  80  
 Lys Val His Ser Xaa Gln His Ser Xaa Glu Lys Pro Phe Arg Cys Glu  
                   85                  90                  95  
 Asn Cys Asp Glu Arg Phe Gln Tyr Lys Tyr Gln Leu Arg Ser His Met  
                   100                  105                  110  
 Ser Ile His Ile Gly His Lys Gln Phe Met Cys Gln Trp Cys Gly Lys  
                   115                  120                  125  
 Asp Phe Asn Met Lys Gln Tyr Phe Asp Glu His Met Lys Thr His Thr  
                   130                  135                  140  
 Gly Glu Lys Pro Phe Ile Cys Glu Ile Cys Gly Lys Ser Phe Thr Ser  
                   145                  150                  155                  160

Arg Pro Asn Met Lys Arg His Arg Arg Thr His Thr Gly Glu Lys Pro  
165 170 175

Tyr Pro Cys Asp Val Cys Gly Gln Arg Phe Arg Phe Ser Asn Met Leu  
180 185 190

Lys Ala His Lys Glu Lys Cys Phe Arg Val Thr Ser Pro Val Glu Cys  
195 200 205

Ala Thr Cys Cys Pro Asp Pro Thr Tyr Asn Phe Pro Ser His Pro Ser  
210 215 220

Ser Phe Cys Gly Glu His Ser His Asn Pro Xaa Pro Pro Ile Asn Met  
225 230 235 240

Asn Pro Val Ser Thr Leu Pro Leu Gly Pro Ser Pro Thr Pro Ser His  
245 250 255

Thr Ala His Pro Pro Thr Pro Ser Pro Pro Thr Pro Xaa Ser His Pro  
260 265 270

Ser Xaa Pro Ser Pro Pro Ala Thr Ser Ser Ser Leu  
275 280

<210> 388

<211> 37

<212> PRT

<213> Homo sapiens

<400> 388

Ile Leu Phe Leu Phe Ile Leu Leu Ser Val Phe Pro Val Thr Asn Arg  
1 5 10 15

Ser Arg Asn Ser Gly Pro Phe Met Asn Ile Ser Arg Ser Ser Met Asp  
20 25 30

Met Gln Lys Arg Asn  
35

<210> 389

<211> 40

<212> PRT

<213> Homo sapiens

<400> 389

Phe Pro Val Lys Phe Val Arg Arg Asn Ser Ile Pro Trp Leu Met Cys  
1 5 10 15

Gly Asn Thr Trp Leu His Thr Gln Lys Thr Cys His Tyr Met Arg Asn  
20 25 30

Leu Trp Lys Ile Ile Gln Thr His  
35 40

<210> 390

<211> 40

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (12)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 390  
 Met Ser Leu Lys Val His Ser Xaa Gln His Ser Xaa Glu Lys Pro Phe  
   1                  5                  10                  15  
 Arg Cys Glu Asn Cys Asp Glu Arg Phe Gln Tyr Lys Tyr Gln Leu Arg  
                   20                  25                  30  
 Ser His Met Ser Ile His Ile Gly  
           35                  40  
  
 <210> 391  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 391  
 His Lys Gln Phe Met Cys Gln Trp Cys Gly Lys Asp Phe Asn Met Lys  
   1                  5                  10                  15  
 Gln Tyr Phe Asp Glu His Met Lys Thr His Thr Gly Glu Lys Pro Phe  
                   20                  25                  30  
 Ile Cys Glu Ile Cys Gly Lys Ser  
           35                  40  
  
 <210> 392  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 392  
 Phe Thr Ser Arg Pro Asn Met Lys Arg His Arg Arg Thr His Thr Gly  
   1                  5                  10                  15  
 Glu Lys Pro Tyr Pro Cys Asp Val Cys Gly Gln Arg Phe Arg Phe Ser  
                   20                  25                  30  
 Asn Met Leu Lys Ala His Lys Glu  
           35                  40  
  
 <210> 393  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (38)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 393  
 Lys Cys Phe Arg Val Thr Ser Pro Val Glu Cys Ala Thr Cys Cys Pro  
   1                  5                  10                  15  
 Asp Pro Thr Tyr Asn Phe Pro Ser His Pro Ser Ser Phe Cys Gly Glu  
                   20                  25                  30







<220>  
 <221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 397  
 Asn Xaa Ser Val Lys Asp Ala Ala Lys Lys Gly Gln Lys Asp Val Cys  
   1                  5                  10                  15  
 Ile Val Leu Ala Lys Glu Met Ile Arg Ser Arg Lys Ala Val Ser Lys  
                   20                  25                  30

Leu

<210> 398  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 398  
 Tyr Ala Ser Lys Ala His Met Asn Ser Val Leu Met Gly Met Lys Asn  
   1                  5                  10                  15  
 Gln Leu Ala Val Leu Arg Val Ala Gly Ser Leu Gln Lys Ser Thr Glu  
                   20                  25                  30

Val Met

<210> 399  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 399  
 Lys Ala Met Gln Ser Leu Val Lys Ile Pro Glu Ile Gln Ala Thr Met  
   1                  5                  10                  15  
 Arg Glu Leu Ser Lys Glu Met Met Lys Ala Gly Ile Ile Glu Glu Met  
                   20                  25                  30

Leu Glu

<210> 400  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (5)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (6)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 400  
 Asp Thr Phe Glu Xaa Xaa Asp Thr Ser Leu Ser Pro Lys Val His Ser  
   1                  5                  10                  15

162 163 164 165 166 167 168 169 170 171 172 173 174 175 176 177 178 179 180 181 182 183 184 185 186 187 188 189 190 191 192 193 194 195 196 197 198 199 200



Cys Glu Gln Ala Val Cys Ile Gln Ser Thr His Glu Leu Ser Ala His  
                   20                  25                  30

Gly

<210> 405  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 405  
 Asp Glu Glu Pro Ala Arg Gly Leu Ala Ser Gly Trp Phe Pro Ala Glu  
   1                  5                  10                  15  
 Glu His Arg Ser Asp Glu Gly His Ala Lys Ser Cys Glu Asp Ser Arg  
                   20                  25                  30

Asp

<210> 406  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 406  
 Ser Gly His His Glu Gly Val Val Gln Arg Asn Asp Glu Gly Trp Asp  
   1                  5                  10                  15

His Arg Gly Asp Val Arg Gly His Phe  
                   20                  25

<210> 407  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 407  
 Lys His Ile Gln Met Phe Gly Leu Lys Tyr Ser Leu Gly Cys Cys Gln  
   1                  5                  10                  15

Ala

<210> 408  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 408  
 Phe Ser Asn Ile Ile Met Gln Tyr Asn Lys  
   1                  5                  10

<210> 409  
 <211> 82  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> SITE  
 <222> (2)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (6)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (24)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 409  
 Thr Xaa Ser Asp Leu Xaa Pro Pro Gly Arg Pro Lys Arg Asp Thr Asp  
   1                  5                  10                  15  
 Ser Leu Leu Phe Tyr Pro Gly Xaa Lys Glu Lys Pro Ile Leu Leu Thr  
                   20                  25                  30  
 Lys Val Leu Asp Thr Thr Ala Ile Arg Asn Leu Leu Cys Glu Asn Lys  
           35                  40                  45  
 Glu Gln Gly Ser Arg Arg Val Gly Gln Arg Arg Val Arg Ser Trp Pro  
       50                  55                  60  
 Ser Val Arg Ala Thr Cys Gln Leu Ser Phe Val Pro Cys Asp Ile Lys  
   65                  70                  75                  80  
 Thr Glu

<210> 410  
 <211> 473  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (405)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 410  
 Met Ala Pro Thr Ile Gln Thr Gln Ala Gln Arg Glu Asp Gly His Arg  
   1                  5                  10                  15  
 Pro Asn Ser His Arg Thr Leu Pro Glu Arg Ser Gly Val Val Cys Arg  
           20                  25                  30  
 Val Lys Tyr Cys Asn Ser Leu Pro Asp Ile Pro Phe Asp Pro Lys Phe  
       35                  40                  45  
 Ile Thr Tyr Pro Phe Asp Gln Asn Arg Phe Val Gln Tyr Lys Ala Thr  
       50                  55                  60  
 Ser Leu Glu Lys Gln His Lys His Asp Leu Leu Thr Glu Pro Asp Leu  
   65                  70                  75                  80  
 Gly Val Thr Ile Asp Leu Ile Asn Pro Asp Thr Tyr Arg Ile Asp Pro  
           85                  90                  95  
 Asn Val Leu Leu Asp Pro Ala Asp Glu Lys Leu Leu Glu Glu Glu Ile  
       100                  105                  110

Gln Ala Pro Thr Ser Ser Lys Arg Ser Gln Gln His Ala Lys Val Val  
 115 120 125  
 Pro Trp Met Arg Lys Thr Glu Tyr Ile Ser Thr Glu Phe Asn Arg Tyr  
 130 135 140  
 Gly Ile Ser Asn Glu Lys Pro Glu Val Lys Ile Gly Val Ser Val Lys  
 145 150 155 160  
 Gln Gln Phe Thr Glu Glu Glu Ile Tyr Lys Asp Arg Asp Ser Gln Ile  
 165 170 175  
 Thr Ala Ile Glu Lys Thr Phe Glu Asp Ala Gln Lys Ser Ile Ser Gln  
 180 185 190  
 His Tyr Ser Lys Pro Arg Val Thr Pro Val Glu Val Met Pro Val Phe  
 195 200 205  
 Pro Asp Phe Lys Met Trp Ile Asn Pro Cys Ala Gln Val Ile Phe Asp  
 210 215 220  
 Ser Asp Pro Ala Pro Lys Asp Thr Ser Gly Ala Ala Ala Leu Glu Met  
 225 230 235 240  
 Met Ser Gln Ala Met Ile Arg Gly Met Met Asp Glu Glu Gly Asn Gln  
 245 250 255  
 Phe Val Ala Tyr Phe Leu Pro Val Glu Glu Thr Leu Lys Lys Arg Lys  
 260 265 270  
 Arg Asp Gln Glu Glu Glu Met Asp Tyr Ala Pro Asp Asp Val Tyr Asp  
 275 280 285  
 Tyr Lys Ile Ala Arg Glu Tyr Asn Trp Asn Val Lys Asn Lys Ala Ser  
 290 295 300  
 Lys Gly Tyr Glu Glu Asn Tyr Phe Phe Ile Phe Arg Glu Gly Asp Gly  
 305 310 315 320  
 Val Tyr Tyr Asn Glu Leu Glu Thr Arg Val Arg Leu Ser Lys Arg Arg  
 325 330 335  
 Ala Lys Ala Gly Val Gln Ser Gly Thr Asn Ala Leu Leu Val Val Lys  
 340 345 350  
 His Arg Asp Met Asn Glu Lys Glu Leu Glu Ala Gln Glu Ala Arg Lys  
 355 360 365  
 Ala Gln Leu Glu Asn His Glu Pro Glu Glu Glu Glu Glu Glu Met  
 370 375 380  
 Glu Thr Glu Glu Lys Glu Ala Gly Gly Ser Asp Glu Glu Gln Glu Lys  
 385 390 395 400  
 Gly Ser Ser Ser Xaa Lys Glu Gly Ser Glu Asp Glu His Ser Gly Ser  
 405 410 415  
 Glu Ser Glu Arg Glu Glu Gly Asp Arg Asp Glu Ala Ser Asp Lys Ser  
 420 425 430  
 Gly Ser Gly Glu Asp Glu Ser Ser Glu Asp Glu Ala Arg Ala Ala Arg  
 435 440 445  
 Asp Lys Glu Glu Ile Phe Gly Ser Asp Ala Asp Ser Glu Asp Asp Ala  
 450 455 460

Asp Ser Asp Asp Glu Asp Arg Gly Gln  
465 470

<210> 411  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 411  
Met Ala Pro Thr Ile Gln Thr Gln Ala Gln Arg Glu Asp Gly His Arg  
1 5 10 15  
Pro Asn Ser His Arg Thr Leu Pro Glu Arg Ser Gly Val Val Cys Arg  
20 25 30  
Val Lys Tyr Cys Asn Ser  
35

<210> 412  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 412  
Leu Pro Asp Ile Pro Phe Asp Pro Lys Phe Ile Thr Tyr Pro Phe Asp  
1 5 10 15  
Gln Asn Arg Phe Val Gln Tyr Lys Ala Thr Ser Leu Glu Lys Gln His  
20 25 30  
Lys His Asp Leu Leu Thr  
35

<210> 413  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 413  
Glu Pro Asp Leu Gly Val Thr Ile Asp Leu Ile Asn Pro Asp Thr Tyr  
1 5 10 15  
Arg Ile Asp Pro Asn Val Leu Leu Asp Pro Ala Asp Glu Lys Leu Leu  
20 25 30  
Glu Glu Glu Ile Gln Ala  
35

<210> 414  
<211> 38  
<212> PRT  
<213> Homo sapiens

<400> 414  
Pro Thr Ser Ser Lys Arg Ser Gln Gln His Ala Lys Val Val Pro Trp  
1 5 10 15  
Met Arg Lys Thr Glu Tyr Ile Ser Thr Glu Phe Asn Arg Tyr Gly Ile  
20 25 30  
Ser Asn Glu Lys Pro Glu  
35





<210> 419  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 419  
 Lys Gly Tyr Glu Glu Asn Tyr Phe Phe Ile Phe Arg Glu Gly Asp Gly  
           1                  5                  10                  15  
 Val Tyr Tyr Asn Glu Leu Glu Thr Arg Val Arg Leu Ser Lys Arg Arg  
                   20                  25                  30  
 Ala Lys Ala Gly Val Gln  
                   35

<210> 420  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<400> 420  
 Ser Gly Thr Asn Ala Leu Leu Val Val Lys His Arg Asp Met Asn Glu  
           1                  5                  10                  15  
 Lys Glu Leu Glu Ala Gln Glu Ala Arg Lys Ala Gln Leu Glu Asn His  
                   20                  25                  30  
 Glu Pro Glu Glu Glu Glu  
                   35

<210> 421  
 <211> 38  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (25)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 421  
 Glu Glu Glu Met Glu Thr Glu Glu Lys Glu Ala Gly Gly Ser Asp Glu  
           1                  5                  10                  15  
 Glu Gln Glu Lys Gly Ser Ser Ser Xaa Lys Glu Gly Ser Glu Asp Glu  
                   20                  25                  30  
 His Ser Gly Ser Glu Ser  
                   35

<210> 422  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 422  
 Glu Arg Glu Glu Gly Asp Arg Asp Glu Ala Ser Asp Lys Ser Gly Ser  
           1                  5                  10                  15  
 Gly Glu Asp Glu Ser Ser Glu Asp Glu Ala Arg Ala Ala  
                   20                  25

<210> 423  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 423  
 Arg Asp Lys Glu Glu Ile Phe Gly Ser Asp Ala Asp Ser Glu Asp Asp  
           1                  5                  10                  15  
 Ala Asp Ser Asp Asp Glu Asp Arg Gly Gln  
                   20                  25

<210> 424  
 <211> 10  
 <212> PRT  
 <213> Homo sapiens

<400> 424  
 Tyr Lys Met Phe Leu Ser Tyr Ser Leu Glu  
           1                  5                  10

<210> 425  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<400> 425  
 Pro Arg Val Arg Phe Gly Ser Ala Pro Ala Pro Gln Pro Ser Cys Val  
           1                  5                  10                  15  
 His Thr Ala Val Pro Leu Pro Leu Gly Gly Leu Asp Thr His Pro Ala  
                   20                  25                  30  
 Arg Gly Ala Thr Lys Leu Cys Pro Asp Glu Ala Arg Trp Ala Pro Arg  
                   35                  40                  45  
 Ser Leu Pro Leu Ser Arg Arg Val Leu Ala Ser Pro Gly Phe Ala Phe  
           50                  55                  60  
 Leu Arg Ile  
           65

<210> 426  
 <211> 34  
 <212> PRT  
 <213> Homo sapiens

<400> 426  
 Pro Arg Val Arg Phe Gly Ser Ala Pro Ala Pro Gln Pro Ser Cys Val  
           1                  5                  10                  15  
 His Thr Ala Val Pro Leu Pro Leu Gly Gly Leu Asp Thr His Pro Ala  
                   20                  25                  30  
 Arg Gly

<210> 427  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens



<210> 431  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<400> 431  
 His Glu Leu Val Arg Ile Arg His Glu Ser Thr Ser Gln Ile Pro Gly  
   1                  5                  10                  15  
 Met Thr Gly Thr Cys His His Ser Leu Phe Ser Phe Leu Ile Phe Ser  
           20                  25                  30  
 Phe Phe Leu Ala Ile Gly Ser Pro Phe Val Ala Gln Val Gly Leu Glu  
           35                  40                  45  
 Leu Leu Gly Ser Asn Asp Pro Leu Ala Ser Ala Ser Gln Ser Val Arg  
   50                  55                  60  
 Ile Thr Gly Met Ser Tyr Cys Ala Trp Pro Lys Ser Tyr Ser Tyr His  
   65                  70                  75                  80

<210> 432  
 <211> 80  
 <212> PRT  
 <213> Homo sapiens

<400> 432  
 Trp Asn Pro Pro Arg Ala Ala Arg Lys Ser Gly His Glu Ile Phe Ser  
   1                  5                  10                  15  
 Arg Asp Met Val Ser Ser Cys Trp Pro Gly Trp Ser Pro Ser Leu Asp  
           20                  25                  30  
 Leu Val Ile Leu Ala Leu Trp Glu Ala Lys Ala Gly Gly Ser Phe Glu  
           35                  40                  45  
 Leu Arg Ser Ser Arg Pro Pro Ser Gln His Asn Glu Ser Thr Leu Glu  
   50                  55                  60  
 Ala Arg Ser Gly Trp Ile Thr Arg Ser Gly Asp Arg Asp His Pro Gly  
   65                  70                  75                  80

<210> 433  
 <211> 198  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (123)  
 <223> Xaa equals any of the naturally occurring L-amino acids



<220>  
 <221> SITE  
 <222> (60)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 434  
 Leu Cys Leu Leu Lys Arg Pro Ser Pro Ile Leu Phe Asn Pro Gly Ser  
   1                  5                  10                  15  
 Pro Ser Gly Gly Pro Thr Leu Gly Thr Thr Ser Pro Thr Asp Gly Pro  
                   20                  25                  30  
 Leu Ala Ser Ala Ile Leu Leu Ala Ala Ile Ser Trp Ala Lys Met Leu  
                   35                  40                  45  
 Leu Xaa Pro Asp Val Ala Asp Xaa Pro Cys Gly Xaa Lys Arg Lys Pro  
   50                  55                  60  
 Xaa Leu Leu Met Leu Ile Ile Pro Leu Ser Ser Gln Pro Leu Tyr Ile  
   65                  70                  75                  80  
 Lys Ala Ser Gly Thr Lys Arg  
                   85

<210> 435  
 <211> 141  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 435  
 Gly Ala Ala Arg Val Pro Val Pro Arg Gly Ala Met Arg Tyr Asn Glu  
   1                  5                  10                  15  
 Lys Glu Leu Gln Ala Leu Ser Arg Gln Pro Ala Glu Met Ala Ala Glu  
                   20                  25                  30  
 Leu Gly Met Arg Gly Pro Lys Lys Gly Xaa Asp Glu Ala Glu Pro Val  
   35                  40                  45  
 Gly Ala Leu Leu Leu Glu Arg Cys Arg Val Val Arg Glu Glu Pro Gly  
   50                  55                  60  
 Thr Phe Ser Ile Ser Phe Ile Glu Asp Pro Glu Arg Lys Tyr His Phe  
   65                  70                  75                  80  
 Glu Cys Ser Ser Glu Glu Gln Cys Gln Glu Trp Met Glu Ala Leu Arg  
                   85                  90                  95  
 Arg Ala Ser Tyr Glu Phe Met Arg Arg Ser Leu Ile Phe Tyr Arg Asn  
                   100                  105                  110  
 Glu Ile Arg Lys Val Thr Gly Lys Asp Pro Leu Glu Gln Phe Gly Ile  
   115                  120                  125



<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (86)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 439

Gly Val Gly Arg Arg Pro Ser Gly Arg Ser Arg Gly Ser Val Pro Thr  
1 5 10 15

Gly Gly Leu Ala Pro His Pro Pro Met Ser Ser Pro Gly Ala Ser Val  
20 25 30

Cys Pro Ser Val Lys Trp Ala Glu Gly Gln His His Leu Met Glu Leu  
35 40 45

Ser Ser Gly Leu Gln Ala Val Asn Leu Lys Ala Trp His Met Gly Gly  
50 55 60

Pro His Glu Asp Xaa Ile Leu Arg Cys Val Val Glu Phe Ser Gln Gln  
65 70 75 80

Arg Glu Ala Cys Arg Xaa Ala Ala Glu Pro Gly Val Leu Glu Glu Gln  
85 90 95

Thr Cys Gly Arg Gly Ala Gly Gly Thr Gly Cys Glu Val Arg  
100 105 110

<210> 440

<211> 25

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (14)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 440

Thr Ala Gly Glu Cys Arg Lys Lys Ala Arg Asn Thr Asp Xaa His Gly  
1 5 10 15

Gly Arg Arg Arg Ser Thr Gln Met Gly  
20 25

<210> 441

<211> 136

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (129)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (136)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 441

Glu Val Leu Val Thr Arg Glu Gly Gly Trp Arg Cys Pro Gly Leu Trp  
1 5 10 15



Pro Phe Gly Gly Trp Ala Gly Lys Thr Asp Gly Glu Arg Arg Glu Gly  
                   20                  25                  30  
 Gly Arg Arg Thr Gln Trp Leu Gly Cys Glu Pro Leu Val Glu Gly Trp  
                   35                  40                  45  
 Gly Gly Ala Asp Leu Arg Thr Gly Trp Gly Leu Gly Ile Leu Val Leu  
                   50                  55                  60  
 Asp Val Ala Gly Gly Gly Cys Ser Trp Leu Pro Gly Met Asn Gln Ser  
                   65                  70                  75                  80  
 Val Val Trp Pro Ser Ser Ser His Pro Leu Met Tyr Cys Ser Leu Val  
                   85                  90                  95  
 Leu Gln Pro Asp Pro Cys Pro Gly Phe Ser Gly Ile Pro Ala Gln Leu  
                   100                  105                  110  
 Phe Thr Gly Trp Ala Gly Ala Val Leu Ser Thr Gly Leu Gly Pro Pro  
                   115                  120                  125  
 Xaa Gly Leu Leu Glu Gln Thr Xaa  
                   130                  135

&lt;210&gt; 442

&lt;211&gt; 78

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 442

Ala Pro Ser Met Asn Trp Arg Leu Cys Ser Pro Trp Glu Met Gly Ala  
                   1                  5                  10                  15

Gln Gly Gly Pro Pro Glu Glu Pro Leu Phe Tyr Val Ala Leu Val Val  
                   20                  25                  30

Phe His Gly Trp Cys Ser Gly Ser Pro Tyr Gln Glu Glu Ala Pro Pro  
                   35                  40                  45

Cys Glu Gly Gly Gly Pro Glu Gly Gly Pro Arg Lys Pro Asp Gln Glu  
                   50                  55                  60

Pro Gly Asn Gln Val Gln Asp Leu Pro Gly His Ala Arg Val  
                   65                  70                  75

&lt;210&gt; 443

&lt;211&gt; 80

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (6)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (8)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (12)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (13)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (25)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (47)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (70)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 443

Glu	Ile	Ser	Xaa	Ala	Xaa	His	Xaa	Phe	Phe	Cys	Xaa	Xaa	Leu	Lys	Leu
1				5				10					15		

Phe	Ser	Ser	Pro	Gln	Glu	Gln	His	Xaa	Gln	Trp	Val	Trp	Lys	Trp	Ala
			20					25					30		

Gly	His	Glu	Ala	Met	Val	Leu	His	Cys	Ile	Ala	Trp	Leu	Gln	Xaa	Gly
		35					40					45			

Ile	Ser	Phe	Leu	Phe	Leu	Phe	Leu	Cys	Val	Ile	Ala	Ile	Gly	Ala	Thr
	50					55				60					

Asn	Phe	Ala	Ser	Pro	Xaa	Phe	Tyr	Lys	Leu	Val	Ser	Ser	Gly	Val	Ala
65					70					75				80	

<210> 444

<211> 77

<212> PRT

<213> Homo sapiens

<400> 444

Gln	Gln	Pro	Gln	Gln	Lys	Met	Gln	Met	Gly	Lys	Trp	Val	Ser	Arg	Leu
1				5					10					15	

Leu	Arg	Leu	Trp	Asn	Met	Gly	Ile	Gln	Leu	Ala	Leu	Ala	Pro	Ala	Leu
			20					25					30		

Ser	Trp	Gly	Cys	Ser	Ser	Ala	Ser	Cys	Pro	Val	Cys	Cys	Gly	Lys	Thr
		35					40					45			

Glu	Pro	Leu	Val	Arg	Leu	Ala	Arg	Arg	Arg	Arg	Ser	Arg	Arg	Gln	Ala
	50					55					60				

Ala Gln Ile Trp Glu Leu Ser Ala Ile Val Pro Ser Val





Glu Leu Leu Asp Gly Lys Gln Thr Leu Ala Ala Phe Val Pro Leu Leu  
 145 150 155 160  
 Leu Lys Val Cys Asn Asn Pro Gly Leu Tyr Ser Asn Pro Asp Leu Ser  
 165 170 175  
 Ala Ala Ala Ser Leu Ala Leu Gly Lys Phe Cys Met Ile Ser Ala Thr  
 180 185 190  
 Phe Cys Asp Ser Gln Leu Arg Leu Leu Phe Thr Met Leu Glu Lys Ser  
 195 200 205  
 Pro Leu Pro Ile Val Arg Ser Asn Leu Met Val Ala Thr Gly Asp Leu  
 210 215 220  
 Ala Ile Arg Phe Pro Asn Leu Val Asp Pro Trp Thr Pro His Leu Tyr  
 225 230 235 240  
 Ala Arg Leu Arg Asp Pro Ala Gln Gln Val Arg Lys Thr Ala Gly Leu  
 245 250 255  
 Val Met Thr His Leu Ile Leu Lys Asp Met Val Lys Val Lys Gly Gln  
 260 265 270  
 Val Ser Glu Met Ala Val Leu Leu Ile Asp Pro Glu Pro Gln Ile Ala  
 275 280 285  
 Ala Leu Ala Lys Asn Phe Phe Asn Glu Leu Ser His Lys Gly Asn Ala  
 290 295 300  
 Ile Tyr Asn Leu Leu Pro Asp Ile Ile Ser Arg Leu Ser Asp Pro Glu  
 305 310 315 320  
 Leu Gly Val Glu Glu Glu Pro Phe His Thr Ile Met Lys Gln Leu Leu  
 325 330 335  
 Ser Tyr Ile Thr Lys Asp Lys Gln Thr Glu Ser Leu Val Glu Lys Leu  
 340 345 350  
 Cys Gln Xaa Phe Arg Thr Ser Arg Thr Glu Arg His Ser Glu Thr Trp  
 355 360 365  
 Pro Thr Val Cys His Ser Cys Pro Ser Gln Ser Glu Ala Ser Val Arg  
 370 375 380  
 Cys Leu Thr Ile Leu Thr Val Leu Glu Thr Asn Cys Gln Met Ser Pro  
 385 390 395 400  
 Ser Ser Val Leu Phe Cys Gln Leu Trp Ala Ser Cys Asp Val Gly Pro  
 405 410 415  
 Ser Leu Arg Ala Arg Leu  
 420

<210> 449

<211> 68

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (28)

<223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 449

His Glu Leu Phe Pro Pro Arg Trp Trp Pro Asp Lys Phe Ile Ser Lys  
 1 5 10 15

Val Gly Phe Thr Ile Ala Asn Ala Arg Asp Leu Xaa His Thr Phe Pro  
 20 25 30

Thr Met Lys Leu Glu Asn Tyr Leu Phe Glu Ser Leu Ser Leu Ile Ile  
 35 40 45

Val Val Trp Ser Leu Ser Asn Ser Ser Glu Val Cys Arg Lys Val Lys  
 50 55 60

Gln Ile Val Gly  
 65

&lt;210&gt; 450

&lt;211&gt; 166

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 450

Ser Lys Met Ser Arg Leu Glu Ala Lys Lys Pro Ser Leu Cys Lys Ser  
 1 5 10 15

Glu Pro Leu Thr Thr Glu Arg Val Arg Thr Thr Leu Ser Val Leu Lys  
 20 25 30

Arg Ile Val Thr Ser Cys Tyr Gly Pro Ser Gly Arg Leu Lys Gln Leu  
 35 40 45

His Asn Gly Phe Gly Gly Tyr Val Cys Thr Thr Ser Gln Ser Ser Ala  
 50 55 60

Leu Leu Ser His Leu Leu Val Thr His Pro Ile Leu Lys Ile Leu Thr  
 65 70 75 80

Ala Ser Ile Gln Asn His Val Ser Ser Phe Ser Asp Cys Gly Leu Phe  
 85 90 95

Thr Ala Ile Leu Cys Cys Asn Leu Ile Glu Asn Val Gln Arg Leu Gly  
 100 105 110

Leu Thr Pro Thr Thr Val Ile Arg Leu Asn Lys His Leu Leu Ser Leu  
 115 120 125

Cys Ile Ser Tyr Leu Lys Ser Glu Thr Cys Gly Cys Arg Ile Pro Val  
 130 135 140

Asp Phe Ser Ser Thr Gln Ile Leu Leu Cys Leu Val Arg Ser Ile Leu  
 145 150 155 160

Thr Ser Lys Pro Ala Cys  
 165

&lt;210&gt; 451

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 451

Lys Pro Ser Leu Cys Lys Ser Glu Pro Leu Thr Thr Glu Arg Val Arg  
 1 5 10 15

His Leu Leu Ser Leu  
20